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## ABSTRACT

This guidebook, a comprehensive national directory of federal offices, programs, and facilities supporting K-12 education in mathematics and science, was designed to inform educators and the general public about federally-supported resources in these subjects and to increase access to them. This book contains information on federal offices and programs at the national and regional levels and lists state-by-state contacts for many of these resources. Sixteen federal agencies collaborated with the Eisenhower National Clearinghouse (ENC) to produce this publication. Section 1 contains general information about the 16 agencies and highlights their involvement in mathematics and science education, acquaints the reader with agency-specific background information, and lists its administrative offices for mathematics and science education. Section 2 features nationwide agency-sponsored mathematics and science programs for elementary and secondary education by region. Each program entry includes the program name, a brief program description, and contact information. Section 3 lists by state and territory those agency resources available at the local level. Information contained in this guidebook is also available in electronic format as part of ENC's effort to provide online information and resources. (ASK)

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# The Guidebook of Federal Resources for K-12 Mathematics and Science



Eisenhower National  
Clearinghouse  
for Mathematics and  
Science Education

ED 428 938

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**Eisenhower National  
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for Mathematics and  
Science Education**  
<http://www.enc.org/>

**ENC's mission is to identify effective curriculum resources, create high-quality professional development materials, and disseminate useful information and products to improve K–12 mathematics and science teaching and learning.**

**enc ...**

**Serves** all K–12 educators, parents, and students with free products and services.

**Acquires** and catalogs mathematics and science curriculum resources, creating the most comprehensive collection in the nation.

**Provides** the best selection of math and science education resources on the Internet.

**Collaborates** with the National Network of Eisenhower Regional Consortia and Clearinghouse and many other organizations to promote education reform.

**Supports** teachers' professional development in math, science, and the effective use of technology.

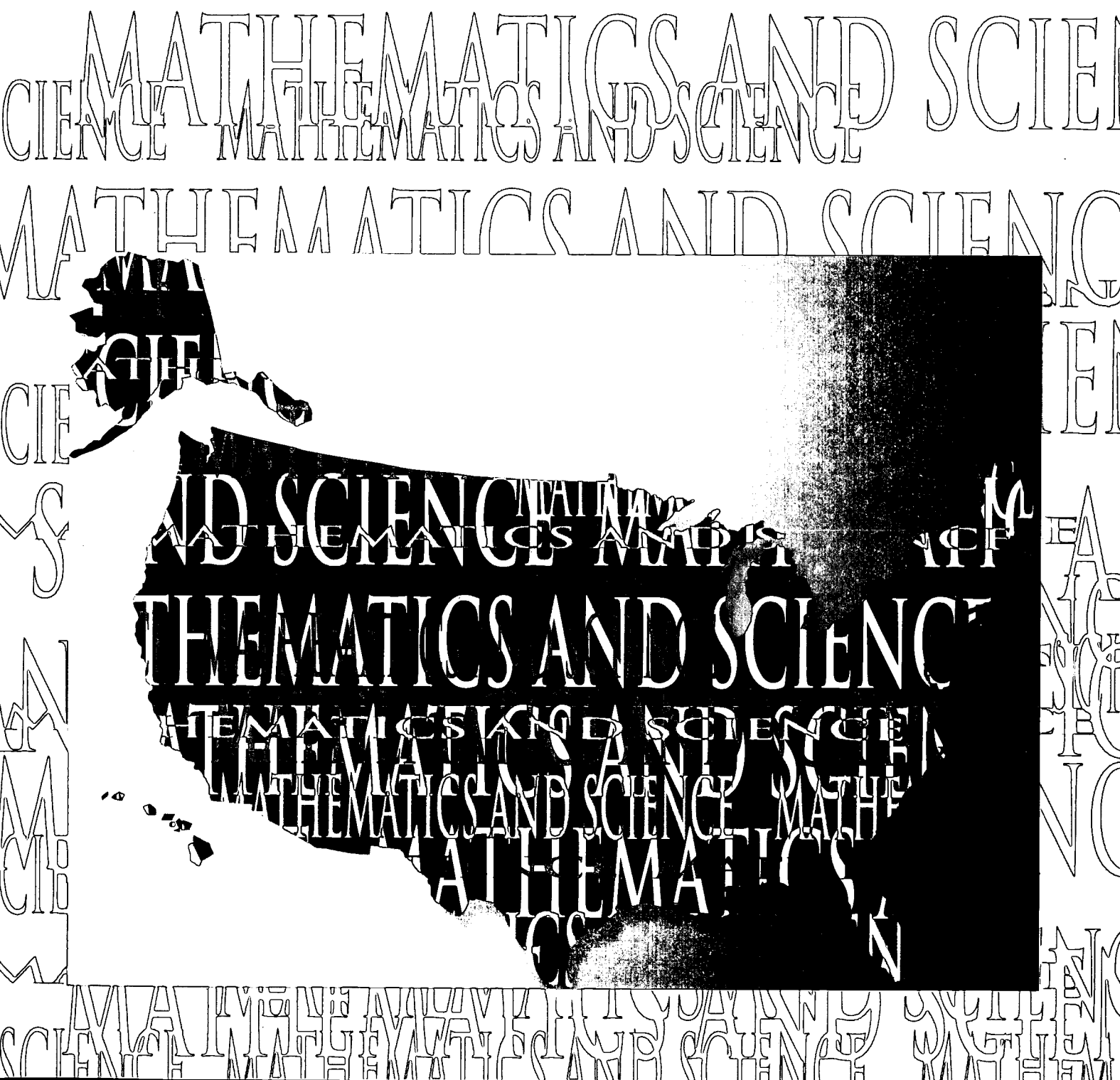
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# The Guidebook of Federal Resources for K-12 Mathematics and Science



Eisenhower National  
Clearinghouse  
for Mathematics and  
Science Education



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U. S. DEPARTMENT OF EDUCATION  
OFFICE OF EDUCATIONAL RESEARCH AND IMPROVEMENT

OFFICE OF REFORM ASSISTANCE AND DISSEMINATION

Dear Reader:

This is the fifth edition of *The Guidebook of Federal Resources for K-12 Mathematics and Science* prepared by the Eisenhower National Clearinghouse (ENC). The Guidebook is a comprehensive national directory of federal offices, programs, and facilities supporting K-12 education in these subject areas.

Those of us in the Office of Educational Research and Improvement, like our colleagues in the entire U.S. Department of Education, are working to bring about educational reform and answer the President's Call to Action for American Education in the 21st century. The Eisenhower National Clearinghouse, in collaboration with the Eisenhower Regional Consortia, plays a strategic role in reaching National Education Goal Five, that American students will be the first in the world in mathematics and science achievement by the year 2000. This publication is part of a continuous effort to inform educators and the public about federally supported resources and to increase access to them. It contains information about federal offices and programs at the national and regional levels and also lists state-by-state contacts for many of these resources in your region.

Information in this Guidebook is also available in electronic format as part of ENC's effort to provide online information and resources, including an extensive catalog of K-12 curriculum materials. The Eisenhower Regional Consortia will also assist in the dissemination of this publication.

We hope you will use this valuable tool as you pursue methods and practices to advance and raise the quality of educational opportunities in mathematics and science for all students.

Sincerely,

Peirce A. Hammond  
Director

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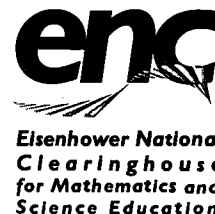
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## Foreword



The Eisenhower National Clearinghouse for Mathematics and Science Education (ENC) is pleased once again to publish *The Guidebook of Federal Resources for K-12 Mathematics and Science*. This directory is part of our continuing effort to identify and disseminate information about materials and programs that strengthen mathematics and science education in the United States. Section I of this publication identifies contacts for national programs administered by each federal agency or department, while Section II takes a regional approach, listing federally funded programs in each state and territory.

Located at The Ohio State University, ENC is in its sixth year of funding through a contract with the U.S. Department of Education. ENC's mission is to be a comprehensive source of information about innovative and effective curriculum resources in K-12 mathematics and science education. ENC works closely with federal agencies, commercial publishers, and the Eisenhower Regional Consortia to identify curriculum resources and professional development materials designed to make a real difference in the quality and effectiveness of mathematics and science education in the United States.

ENC produces a variety of print publications and CD-ROMs available free to educators. In addition, most of ENC materials, including this *Guidebook*, are available through ENC Online (<http://www.enc.org/>), a World Wide Web site accessible via the Internet and by modem through a toll-free number. For details on ENC products and services, refer to page vii of this publication.

I am most grateful to the staff at each of the federal agencies and the Eisenhower Regional Consortia who provided the information for this *Guidebook*. I also wish to thank the staff at Aspen Systems Corporation and the ENC Publications Team who made this edition of *The Guidebook* possible.

Len Simutis, Director  
Eisenhower National Clearinghouse  
for Mathematics and Science Education

# About The Guidebook and ENC

## How to Use The Guidebook

The purpose of this *Guidebook* is to assist educators, parents, and students across the country in attaining the National Education Goals, particularly Goal 5:

*By the year 2000, U.S. students will be first in the world in science and mathematics achievement.*

The *Guidebook* is intended to improve educators' awareness of the federal government's extensive commitment to mathematics and science education. Sixteen federal agencies collaborated with the Eisenhower National Clearinghouse (ENC) to produce this publication. Although *The Guidebook* contains valuable information for anyone involved in mathematics and science education, its focus is on the elementary and secondary levels. Programs described include those that assist students who will go on to study in college or technical school as well as programs intended to improve general mathematics and science literacy.

The *Guidebook* consists of two sections:

### Section I: Overviews of Federal Agencies

Section I contains general information about each of the 16 agencies. Listed alphabetically, each overview highlights that agency's involvement in mathematics and science education and acquaints readers with agency-specific background information. Also listed are nationwide mathematics and science programs for elementary and secondary education sponsored by each agency. Each entry includes the program name, a brief description, and contact information.

### Section II: State Highlights by Region

Section II lists, by region, federally funded programs and resources available in each state and territory. Each of the 10 regional subsections begins with a description of the Eisenhower Regional Consortium serving that part of the country. By referring to the state-by-state listings of facilities and contacts for

mathematics and science education, readers can easily discover what resources are available locally.

No one resource can list all federal education programs, but this directory does provide contacts that can supply additional information. For added convenience, *Guidebook* contents are also available through ENC Online (<http://www.enc.org/>).

## About ENC

The U.S. Department of Education recognizes the efforts expended by mathematics and science educators to develop standards and improve their teaching. The department also recognizes the need to identify and collect useful materials and to disseminate information about successful programs, especially those emanating from federal support.

ENC was established in 1992 to provide K-12 teachers with a central source of information about mathematics and science curriculum materials. Since that time, ENC has fulfilled its mission through development of the growing ENC collection of resources. In addition, ENC has gone on to promote excellence in mathematics and science education through the creation of a variety of products and services, described below.

### ENC Collection

ENC has acquired and cataloged more than 12,000 items, including print materials; video, audio, and graphic images; software; kits; and Internet resources from a variety of sources, including federal and state agencies, commercial publishers, and professional associations. Materials collected are held in two ENC repositories, one at The Ohio State University in Columbus, Ohio, and one in Washington, DC, in collaboration with The George Washington University. Categories of materials include the following:

- **Printed Documents** such as activity guides, teacher and student guides, sourcebooks, reference materials, textbooks, program descriptions, published articles, directories, bibliographies, and

technical information about instructional equipment.

- **Magnetic and Optical Media** such as software, images (e.g., GIF, JPEG, EPS), CD-ROMs, optical and laserdiscs, videotapes, and audiotapes.
- **Projected Media** such as films, slides, filmstrips, overhead transparencies, microfiche, and microfilm.
- **Real Objects** such as kits, manipulative materials, microcomputer-based packages and probeware, instructional models, games and simulations, assorted instructional aids (e.g., posters, maps, charts), and laboratory or field equipment.
- **Virtual Resources** including education materials available on the Internet such as World Wide Web pages, ftp sites, listserv archives, and frequently asked question (FAQ) files.

### ENC Resource Finder

Resource Finder, an electronic catalog of K-12 curriculum resources, is designed for teachers who often have limited time and unlimited needs. With input from teachers on the types of information they want to see in a catalog record, ENC developed a unique and comprehensive system. Each record has more than 20 fields, including standard library fields—title, author, subjects, publication date, and publisher—as well as fields unique to the needs of educators—grade level, table of contents, evaluation, descriptive abstract, and resource type.

Catalog entries provide detailed information about resources and enable ready access to materials that enhance classroom activities and support professional development. For example, Resource Finder includes extensive information on:

- **Content**  
ENC's abstracts are detailed and comprehensive, with sufficient information about a resource to help teachers make informed decisions. The abstracts contain information about instructional methods, assessment, intended outcomes, and any special

features, including appendices and bibliographies.

#### ► Evaluation

A significant part of ENC's mission is to locate and include evaluative information about the resources cataloged. Such evaluations include awards, field tests, and citations in journals and magazines. In addition, ENC collects evaluative data from teachers who use these materials in their classrooms. Teachers are invited to contribute their comments about resources through forms linked to the catalog record.

#### ► Standards

To accommodate the growing emphasis on state and national standards for education, the ENC catalog contains information about linking certain materials to mathematics and science standards. When a resource meets particular standards, as indicated by the author or publisher, that information is detailed in the standards field.

### ENC Online

ENC Online (<http://www.enc.org/>) gives users ready access to a variety of electronic resources, including the contents of this *Guidebook* and other ENC publications, ENC Resource Finder, resources from other education databases, and information and materials on education reform. Anyone with a computer and a modem or Internet access may use ENC Online.

Like any Web site, ENC Online is constantly evolving. Popular features include Digital Dozen, a list of exemplary Internet sites chosen monthly. Links to other Web sites with lesson plans and activities are provided. Teachers will also find copies of the latest standards and curriculum frameworks as well as information for their own professional development. Also included are grant opportunities and articles from math and science education journals.

### ENC on Disc

CD-ROMs contain thousands of text pages as well as sound, images, and digital video. ENC has created a growing collection of CD-ROMs on various topics of interest to educators. The discs also serve as another interactive way to access materials in the ENC collection via Resource Finder.

All of the CD-ROMs produced by ENC contain information on state curriculum frameworks, assessment methods, standards, equity issues, and professional development, as well as materials describing innovative practices in mathematics and science education. The discs

also provide curriculum materials that teachers may use in the classroom.

ENC's CD-ROMs are free while supplies last. Contents of the CDs are also made available through special Web sites accessible through ENC Online.

### ENC in Print

In addition to this *Guidebook*, ENC produces print publications that are free to teachers and others interested in education. Recent topics include informal education, family involvement in education, multicultural education, and mathematics professional development. For a list of currently available titles, call (800) 621-5785 or visit ENC Online (<http://www.enc.org/>). Electronic versions of most ENC print publications are also available on this Web site.

### ENC Reference Staff

The ENC Reference Desk is staffed by professional reference librarians who answer questions concerning curriculum resources and can help educators make the best use of Clearinghouse resources. They can provide assistance with:

- Locating K–12 teaching resources for classroom use.
- Using ENC Resource Finder.
- Answering other mathematics or science education-related questions.

In addition, ENC Online lets users give feedback or ask questions directly from the Web pages. For example, teachers can go to the ENC Virtual Reference Desk, submit a question, and mail it electronically to ENC librarians. Reference staff will respond within two working days.

### ENC Is Always Seeking Math and Science Materials

ENC counts on publishers, federal agencies, professional organizations, and teachers to assist in the effort to provide broad access to information about curriculum materials. Educators who know of valuable K–12 mathematics and science materials are invited to contact ENC's Acquisitions Coordinator and mention the items they would like to see in the collection. Please provide as much information as possible about the items.

In addition, ENC actively seeks information available on the Internet, such as World Wide Web sites where educational materials are stored. Educators who maintain such a site or know of one are requested to pass on the information to ENC.

## Additional Information About ENC

### Accessing ENC Online

#### Internet:

Using World Wide Web software, connect to ENC at <http://www.enc.org/>. With an Internet connection, use the telnet command to connect to enc.org and login as guest.

#### Modem:

With a modem, dial (800) 362-4448 for toll-free access. For direct access, dial (614) 292-9040.

Set communication software to: VT100 terminal emulation. No parity, 8 data bits, 1 stop bit. Once connected, press RETURN or ENTER once to bring up a screen and type c to begin. Login as guest.

### General Information

Direct telephone: (614) 292-7784

Fax: (614) 292-2066

Toll-free telephone: (800) 621-5785

E-mail: [info@enc.org](mailto:info@enc.org)

Hours: Monday–Friday: 8 a.m.–5 p.m./ET

### Technical Help Desk

Direct telephone: (614) 292-9590

Toll-free telephone: (800) 621-5785

E-mail: [help@enc.org](mailto:help@enc.org)

Hours: Call the toll-free number for hours when the Technical Help Desk is staffed.

### Reference Desk

Direct telephone: (614) 292-9734

Toll-free telephone: (800) 621-5785

E-mail: [library@enc.org](mailto:library@enc.org)

Hours: Call the toll-free number for hours when the Reference Desk is staffed.

### Acquisitions

Direct telephone: (614) 292-8389

Toll-free telephone: (800) 621-5785

E-mail: [submit@enc.org](mailto:submit@enc.org)

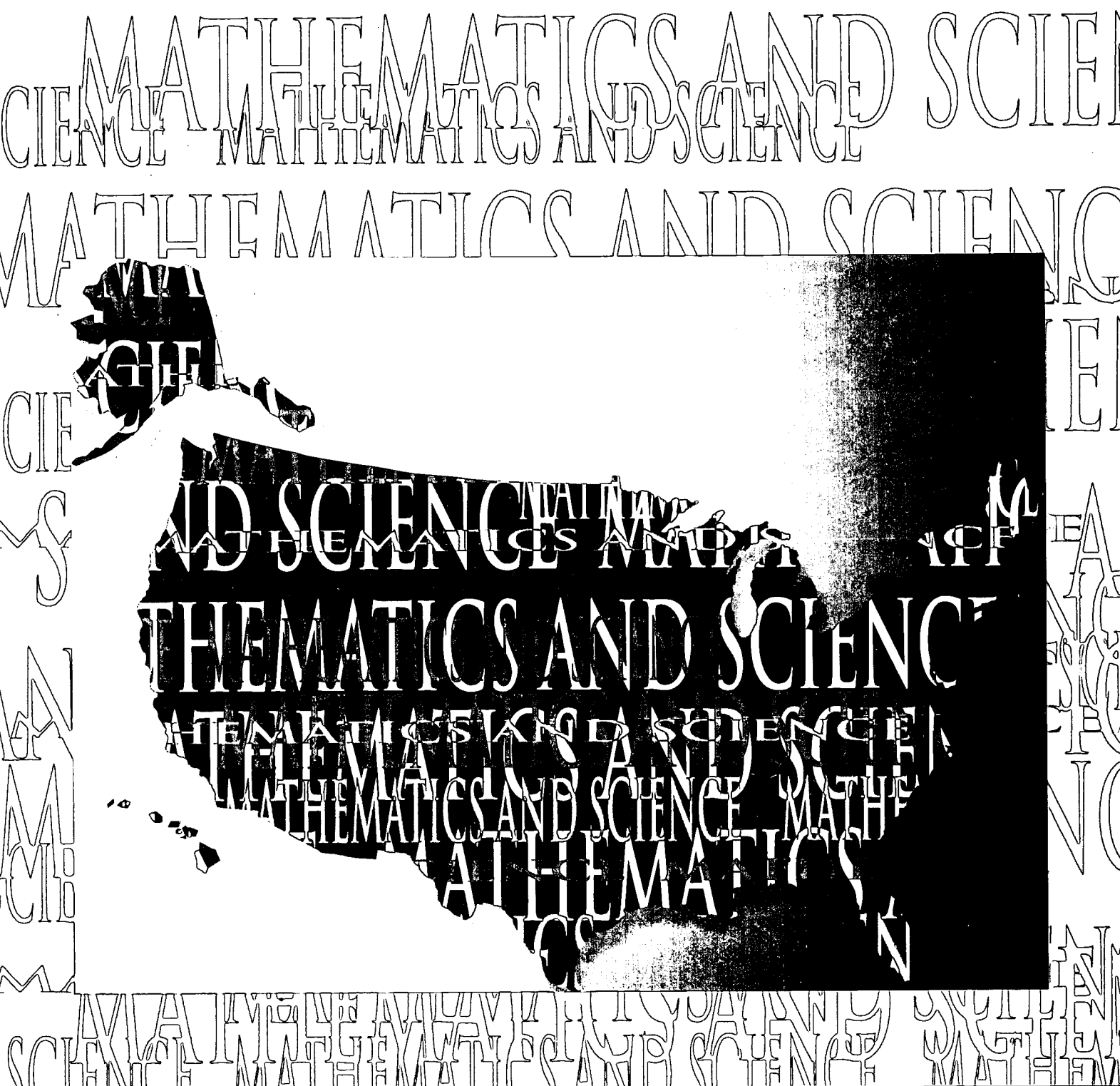
### Mailing Address

Eisenhower National Clearinghouse for  
Mathematics and Science Education  
The Ohio State University  
1929 Kenny Road  
Columbus, OH 43210-1079

### ENC Demonstration Sites

In collaboration with the Eisenhower Regional Consortia, ENC has established regional Demonstration Sites that provide educators across the nation a place for hands-on access to ENC online resources. For information about the Consortia, refer to the preface for each region in Section II of this *Guidebook*.

# Overviews of Federal Agencies





# U.S. Department of Agriculture (USDA)

*To compete effectively in the increasingly complex world of international agribusiness and agri-science, America needs professionals who are highly skilled in the food and agricultural sciences. USDA is committed to developing human resources by strengthening its sponsorship of science and mathematics programs at all levels of learning.*

**Dan Glickman, Secretary**  
**U.S. Department of Agriculture**



## Mission

The U.S. Department of Agriculture (USDA) is authorized to provide the leadership, oversight, and management necessary to ensure that the United States has adequate supplies of high-quality food and fiber. The department supports and conducts a wide range of research, development, extension, and education activities to achieve that mission.

## Background

On May 15, 1862, President Abraham Lincoln signed the act creating the U.S. Department of Agriculture. The department has since helped make American agriculture the most productive in the world, giving the American people the most varied and wholesome food supply for the smallest share of disposable income of any people in the world. On July 2, 1862, President Lincoln signed the Morrill Land-Grant College Act, which established colleges in each state to educate young men and women in agriculture. This Act brought higher education within reach of youth of ordinary means and elevated what had been called "agricultural training" to a scientific enterprise. In 1890, an additional group of 17 Historically Black Colleges and Universities was given land-grant status to enable the department to serve all populations. The Food and Agriculture Act of 1977 designated USDA as the lead federal agency for higher education in the food and agricultural sciences. In 1994, Congress designated 29 Native American Tribal colleges as 1994 Land-Grant Institutions, and authorized Extension programs at each of them, to be conducted through cooperative agreements with the original 1862 Land-Grant Universities.

## Role in Mathematics and Science Education

USDA's education efforts have helped produce scientific and nonscientific professionals who have made American agriculture the most effective and efficient agricultural system in the world. The department has accomplished the transfer of new technologies and scientific knowledge via research agencies,

such as the Cooperative State Research, Education, and Extension Service; the Agricultural Research Service; and the Forest Service. USDA is also home to the National Agricultural Library, the largest agricultural library in the world. Other USDA agencies with research and education programs include the Animal and Plant Health Inspection Service, the Agricultural Marketing Service, the Food and Consumer Service, the Foreign Agriculture Service, the Natural Resources Conservation Service, and the National Agricultural Statistics Service.

## Elementary and Secondary Education

USDA precollege activities devoted exclusively to mathematics and science are few. However, the Ag in the Classroom Program provides national coordination for states, helping to increase K-12 students' awareness of agriculture's role in the economy and society. USDA's Research Apprenticeship Program annually supports approximately 200 high school students' (primarily minority and female youth) hands-on research experience with scientists in federal and university laboratories. Scientific literacy among K-12 students is sustained by support from the many 4-H Youth Development Programs. Teacher enhancement is an integral part of these programs.

## Higher Education

Because of the need to ensure an adequate supply of trained scientists and professionals in the food and agricultural sciences, USDA was designated as the lead federal agency for higher education in these fields. Program areas include agriculture, natural resources and forestry, veterinary medicine, family and consumer sciences, and related disciplines. In response to its congressional mandate, USDA established the Office of Higher Education Programs, which provides national leadership to:

- ▶ Achieve and maintain excellence in college and university programs in the food and agricultural sciences.
- ▶ Produce outstanding graduates to satisfy the nation's requirements for scientific and professional expertise.

- ▶ Enhance the synergism of research and teaching.

In this respect, USDA supports the development of expertise through both predoctoral traineeships at universities and postdoctoral traineeships in federal laboratories as mechanisms to train personnel for critical positions with government, academia, and the private sector.

USDA's role in undergraduate and graduate education is even more extensive. The Office of Higher Education Programs (HEP) functions primarily as a catalyst to promote excellence in education, working closely with the states, the college and university systems, and the private sector. HEP administers several high-priority programs to enhance the quality of education and to develop outstanding scientific and professional expertise at colleges and universities across the nation. For example, minority expertise development is funded through the Multicultural Scholars Program, launched in 1994. Institutional enhancement occurs through six grant programs, three formula (Delta Teachers Academy, Tribal Colleges Endowment Fund, and Tribal Colleges Education Equity Grants Program) and three competitive (1890 Institution Capacity Program, Higher Education Challenge Grants Program, and Hispanic-Serving Institutions Grants Program), amounting in fiscal year 1997 to approximately \$24 million. The National Needs Graduate Fellowships Grants Program allows outstanding graduate students to pursue doctoral degrees in critical needs areas of the food and agricultural sciences. Other national projects enhance the development of issues and information and the development of strategic planning.

## Public Understanding of Science

USDA fosters public understanding of science through a variety of programs, including an annual Food Safety Campaign, held to coincide with National Consumers Week. Also provided are a Nutrition Education and Training Program and a USDA Meat and Poultry Hotline. In addition, approximately 100 federal laboratories of the Agricultural Research Service provide tours and open-house activities to educate the general public on new developments in agricultural research.



## How Mathematics and Science Education Programs Are Administered

The Under Secretary for Research, Education, and Extension has overall authority for educational initiatives within USDA. Most agencies referenced in this section are under the Under Secretary's direct purview. The Office of Higher Education Programs of the Cooperative State Research, Education, and Extension Service is the operating division most involved with college and university science education. The National Agricultural Research, Extension, Education, and Economics Advisory Board, established by Congress in 1996, advises the Secretary and land-grant colleges and universities on long-term and short-term national policies and priorities relating to the department's research, education, and economics mission. The board is made up of members from food and agricultural science organizations, societies, associations, and institutions representing a wide range of interest groups. USDA offers an unparalleled national network for advancing science and education through its federal laboratories, State Agricultural Experiment Station System, university scientists and educator cooperators, professional staff, and volunteer lay leaders.

## Administrative Offices for Mathematics and Science Education

### Agricultural Research Service

This service operates approximately 100 federal laboratories and research centers nationwide and overseas. Scientists at these laboratories are valuable resources for science-enrichment initiatives at the precollege and college levels.

Administrator, USDA Agricultural Research Service  
Office of the Administrator-CRS  
Jamie L. Whitten Building, Room 302-A  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

### Cooperative State Research, Education, and Extension Service (CSREES)

CSREES advances science and technology in support of agriculture, forestry, people, and communities in partnership with the State Agricultural Experiment Station System and the State Cooperative Extension System. CSREES also serves as the federal partner in the Cooperative Extension System, a unique

educational partnership with land-grant institutions in each state, territory, and the District of Columbia. The partnership includes more than 130 colleges of agriculture; 59 agricultural experiment stations; 57 cooperative extension services; 63 schools of forestry; Tuskegee University and the other 16 Historically Black Colleges and Universities as designated in 1890; 27 colleges of veterinary medicine; 42 schools and colleges of family and consumer sciences; 29 Native American land-grant institutions, as designated in 1994; and more than 160 Hispanic-serving institutions, including some 80 members and 45 associate members of the Hispanic Association of Colleges and Universities. The Cooperative Extension System is a valuable resource for technology transfer and issue identification at all education levels. CSREES administers the 4-H Program, which is one of the largest informal youth development programs in the country. The local county Cooperative Extension Service office can be contacted for more information about education programs. Offices are listed under local government in the telephone directory.

Colien Hefferan, Administrator  
Cooperative State Research, Education, and Extension Service  
U.S. Department of Agriculture  
Jamie L. Whitten Building, Room 305-A  
1400 Independence Avenue SW  
Washington, DC 20250-2201  
(202) 720-4423 / Fax: (202) 720-8987  
E-mail: [CSREES@reeusda.gov](mailto:CSREES@reeusda.gov)  
<http://www.reeusda.gov/>

### Forest Service

The Forest Service expanded its involvement in conservation education in 1990 by launching the Natural Resource Conservation Education Program (NRCEP), which was developed to help implement the Environmental Education Act of 1990. The program was established service-wide to strengthen natural resources education efforts. It is jointly sponsored by the Forest Service and the National Association of State Foresters. Its primary objective is to support a lifelong learning process that promotes the understanding of natural resources and ecosystems—their interrelationships, conservation, use, management, and values to society. NRCEP works with partners to jointly sponsor conservation education projects throughout the nation. These joint projects combine federal, state, local, and private funds to increase the money available for conservation education programs. Some of the current national NRCEP projects include: Project Learning Tree, National Children's Forests, Investigating Your Environment, Girl Scouts of the USA, and Boy Scouts of America. The NRCEP office can be contacted for more information about education programs.

Natural Resource Conservation Education Program  
Forest Service  
U.S. Department of Agriculture  
1400 Independence Avenue SW  
PO Box 96090  
Washington, DC 20090-6090  
(202) 205-1545

## National Agricultural Library (NAL)

NAL administers library services and programs for USDA and was established by Congress as the primary agricultural information resource for the nation. As such, NAL's mission is to increase the availability and use of agricultural information for researchers, educators, policy makers, students, consumers of agricultural products, and the public.

NAL supports agricultural education at all levels through many departmental and other federal initiatives and programs. NAL is a central distribution source for the Ag in the Classroom Program materials representative of resources available at the state level.

NAL serves anyone unable to locate agricultural-related materials locally. To preserve the collection, users are encouraged to request materials from NAL only when they are not available at the local, state, or regional levels. Users may obtain access to the NAL staff and collections through the Internet, <http://www.nal.usda.gov/>; its bibliographic database AGRICOLA (AGRICultural Online Access); and ISIS (Integrated System for Information Services), NAL's online public access catalog.

Pamela Q.J. Andre, Director  
National Agricultural Library  
Agricultural Research Service  
U.S. Department of Agriculture  
10301 Baltimore Avenue, Room 200  
Beltsville, MD 20705-2351  
(301) 504-5248 / Fax: (301) 504-5472  
E-mail: [info@nal.usda.gov](mailto:info@nal.usda.gov)  
<http://www.nal.usda.gov/>

## Office of Civil Rights (CR)

CR develops and enforces USDA's civil rights principles, policies, standards, and regulations. CR ensures compliance with government-wide regulations governing civil rights management.

Director, Office of Civil Rights  
U.S. Department of Agriculture  
Jamie L. Whitten Building, Room 326-W  
1400 Independence Avenue SW  
Washington, DC 20250-1322  
(202) 720-5212 / Fax: (202) 205-2891

## Office of Public Affairs

This office provides general information on USDA programs.

Director, Office of Public Affairs  
U.S. Department of Agriculture  
Jamie L. Whitten Building, Room 402-A  
14th Street and Independence Avenue SW  
Washington, DC 20250-1301  
(202) 720-4623 / Fax: (202) 720-5043

## National Programs for K-12 Education

### 4-H Missions in Space Program

This partnership between National 4-H and the Alabama Space Science Exhibit Commission encourages youth to attend the Space and Rocket Center in Alabama and the Astronaut Hall of Fame in Florida. Space Camp allows students to participate in a variety of science and technology activities. Scholarships are available to assist underrepresented youth.

Extension 4-H Specialist, ACES-4-H  
211 Duncan Hall  
Auburn University, AL 36849-5620  
(205) 844-2233

### 4-H Regional Leadership Centers

Designed to complement the National Network for Action in Science and Technology, Regional Leadership Centers train community-based teams in informal science education and are responsible for keeping these teams up to date on new programs. Regional Centers are currently operating in California, Georgia, Missouri, and New York.

Coordinator, National Network for Action  
and Science Technology  
6H Berkey Hall  
Michigan State University  
East Lansing, MI 48824-1111  
(517) 355-0180

4-H Specialist, Agriculture and Natural  
Resources  
University of California at Davis  
300 Lakeside Drive  
Davis, CA 95616  
(916) 752-8824

### 4-H Youth Development Programs

Under the Cooperative State Research, Education, and Extension Service, these programs spark interest in mathematics and science among American youth. The purpose of the programs is to complement classroom education with informal, experiential education in community settings. Approximately six million youth, ages 5-18, participate in school

enrichment programs, clubs, and special events. The 4-H organization receives substantial support from volunteers and private-sector contributors. Each state has a 4-H State Leader who can provide more information about 4-H activities. Log on to <http://www.4h-usa.org/> for extensive information about the 4-H program, updated monthly, and links to all state 4-H Web sites.

The national 4-H program has established a juried curriculum review process that reviews experiential youth development educational materials against a stringent set of 14 national criteria for youth development education. At present, 115 curricula, mostly from land-grant universities, have met each of the criteria and are recommended for use in all states and territories. The juried review process is ongoing and new materials are added each month. Of the 115, 36 are science education, and suitable for use both in the classroom and in non-formal education settings. The Web site [http://www.reeusda.gov/new/4h/curricul/4h\\_projects.htm](http://www.reeusda.gov/new/4h/curricul/4h_projects.htm) lists all curricula in the collection by subject, and includes a downloadable citation for each. The citation includes audience grade, life skills, availability and source, an abstract, and full review comments.

National Program Leader  
Families, 4-H, and Nutrition  
USDA Cooperative State Research,  
Education, and Extension Service  
South Building, Room 3860  
Washington, DC 20250-0900  
(202) 720-3891 / Fax: (202) 720-9366  
<http://www.4h-usa.org/>

### Ag in the Classroom

This program helps students gain a greater understanding of agriculture's role in the economy and society, and informs students about career opportunities in food and agricultural sciences. While USDA provides national leadership, each state develops its own programs in cooperation with agribusiness, education, and government. Information about state programs is available through the Washington, DC office. The Ag in the Classroom State Leader can provide details on state-level programs and materials.

Dorothy Jackson, National Program Leader  
Ag in the Classroom  
U.S. Department of Agriculture  
South Building, Room 4309  
Washington, DC 20250-2251  
(202) 720-7925 / Fax: (202) 720-2030  
E-mail: [DJackson@reeusda.gov](mailto:DJackson@reeusda.gov)  
<http://www.reeusda.gov/serd/hep/agclass.htm>

### Black Emphasis Program

This program develops academies that focus on African-American boys in middle school. The academies provide students with early

science experiences, mentors, and role models to enhance self-confidence and to foster an interest and desire to achieve in science-related fields. Academies are funded through two Historically Black Colleges and Universities.

Black Emphasis Program Manager  
U.S. Department of Agriculture  
South Building, Room 1322  
1400 Independence Avenue SW  
Washington, DC 20250-1322  
(202) 720-2019 / Fax: (202) 690-2345

## National Network for Action in Science and Technology

The National Network links land-grant colleges and universities that provide technical assistance to federally funded sites for at-risk children, youth, and families. The network provides trainers with the information and skills necessary to return to their local communities and train others to implement science and technology curricula and processes. In addition, trainers learn how to recruit participants, promote programs, and establish advisory and planning groups.

Coordinator, National Network for Action  
in Science and Technology  
6H Berkey Hall  
Michigan State University  
East Lansing, MI 48824-1111  
(517) 355-0180

## Research Apprenticeship Program

This program increases students' awareness of research in food and agricultural sciences and provides an opportunity for high school students to interact with federal and university research scientists to gain first-hand experience in a research environment. Designed for students with a strong aptitude in math and science, the program encourages participants to attain a college degree in food and agricultural sciences.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
South Building, Room 3550  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

## SPACES: Preparing Kids for a High-Tech and Global Future

SPACES is an informal, community-based science education program that uses hands-on techniques to prepare students for the global, high-tech society of the future. The framework shows how to set up a science education program for children ages 5-14 and how to involve community scientists, technicians, and others with science and technology expertise.

The program focuses on aerospace, the environment, and relationships. Extensive curriculum support is available.

Michigan 4-H Youth Programs  
Michigan State University  
6H Berkey Hall  
East Lansing, MI 48824-1111  
(517) 355-0180 / Fax: (517) 355-6748  
E-mail: [olsenj@msue.msu.edu](mailto:olsenj@msue.msu.edu)  
<http://www.msue.msu.edu/msue/cyf/youth/index.html>

### **Youth Conservation Corps**

This summer employment program is offered through a collaboration between USDA and the Department of Interior. Students ages 15–18 work on projects to further the development and conservation of the country's natural resources. Work projects give the enrollees an understanding of their tasks and of how their work contributes to environmental enhancement.

Director, Human Resources Programs  
U.S. Department of Agriculture  
Forest Service  
PO Box 96090  
Washington, DC 22209  
(703) 235-8834

# U.S. Department of Commerce (DOC)

*In this time of unparalleled and unprecedented economic integration, students must think of themselves not only as citizens of the United States, but as active participants in a global marketplace. Our broad goals for the 21st century must continue to address the rapidly changing nature of the American economy and empower our students and workers with the opportunities to move into this global marketplace with confidence and a sense of pride.*

**William S. Daley, Secretary**  
U.S. Department of Commerce



## Mission

The U.S. Department of Commerce (DOC) encourages, serves, and promotes the nation's international trade, economic growth, and technological advancement. Within this framework, and with a policy of promoting the national interest through the encouragement of a competitive free enterprise system, the department provides a wide variety of programs.

## Background

The department was established by Congress in 1913 through a reorganization of the Department of Commerce and Labor, which had been created in 1903. Today, DOC has 13 agencies in areas such as international trade, technology, the oceans and the atmosphere, economic and social data, travel and tourism, patents and trademarks, and telecommunication.

## Role in Mathematics and Science Education

The National Institute of Standards and Technology and the National Oceanic and Atmospheric Administration have missions that involve scientific research and technical applications, and, therefore, have the greatest role in science and mathematics education within DOC.

### Elementary and Secondary

Most DOC precollege activities consist of voluntary outreach by the professional staff or cooperative efforts with other organizations, with minimal direct funding available.

### Higher Education

DOC has developed a cooperative education program to provide work-related educational opportunities to students, as well as graduate and postdoctoral fellowships.

## How Mathematics and Science Education Programs Are Administered

DOC agencies that offer education programs self-administer their respective programs.

## Administrative Offices for Mathematics and Science Education

### National Institute of Standards and Technology, Office of International and Academic Affairs / Postdoctoral Programs

As the national laboratory for measurement science and engineering, with emphasis on state-of-the-art research, the National Institute of Standards and Technology maintains a strong program of postdoctoral education. The institute sponsors numerous postdoctoral research fellowships in collaboration with the National Research Council of the National Academy of Sciences.

Jack Hsia / Joy Brooks, Academic Affairs  
National Institute of Standards and Technology  
Administration Building, Room A505  
Gaithersburg, MD 20899  
(301) 975-3071 / Fax: (301) 975-3530  
E-mail: v.brooks@nist.gov

Lannette Myers, Student Coordinator  
National Institute of Standards and Technology  
Office of Personnel and Civil Rights  
Administration Building, Room A123  
Gaithersburg, MD 20899  
(301) 975-3028 / Fax: (301) 948-6107

## The National Oceanic and Atmospheric Administration (NOAA)

### National Sea Grant Program-NOAA

In conjunction with 29 universities and institutions, this program promotes a strong educational base through a network of more than 200 university and marine research institutions. Sea Grant reaches its audiences through workshops, conferences, brochures, videotapes, films, radio shows, newsletters, and local educational programs. For more information about a nearby Sea Grant institution, contact the National Sea Grant Office.

National Sea Grant College Program  
National Oceanic and Atmospheric Administration  
1315 East-West Highway  
Silver Spring, MD 20910  
(301) 713-2431 / Fax: (301) 713-0799  
<http://www.mdsg.umd.edu/NSGO/>

### National Weather Service-NOAA

The National Weather Service supports educational programs developed by a wide variety of outside organizations. Examples are the American Meteorological Society's Project Atmosphere, the Weather Channel's Weather Classroom, and the NBC/WRC-TV project to develop public access to Earth and space science data visualizations via TV and the Internet. Project Atmosphere prepares teachers to be Atmospheric Education Resource Agents so that they can act as a bridge between meteorologists and teachers in the classroom. The Weather Classroom, which is on the air 10 minutes each day Monday through Friday, has a companion textbook. A series of publications on severe weather is being distributed to schools and the public to increase awareness and use of the National Weather Radio Service.

Joan VonAhn  
NOAA National Weather Service  
Services Development Branch  
1325 East-West Highway  
Silver Spring, MD 20910  
(301) 713-0462  
<http://www.nws.noaa.gov/>



### **NOAA Office of Public and Constituent Affairs**

This office has a limited number of publications suitable for classroom instruction that teachers can request by mail. Some of these titles are also available on the Internet. Users can access information online by typing "Telnet gopher.esdim.noaa.gov" at the Internet prompt, logging in as "gopher" and selecting "Connections to NOAA's Online Data," and then selecting "Answers from NOAA: Educational Resources." This information can also be found at <http://www.publicaffairs.noaa.gov/> for those with Web access.

NOAA Office of Public and Constituent Affairs  
14th and Constitution Avenue NW  
Room 6013  
Washington, DC 20230  
E-mail: [opca@esdim.noaa.gov](mailto:opca@esdim.noaa.gov)  
<http://www.publicaffairs.noaa.gov/>

### **Office of Ocean and Coastal Resource Management-NOAA**

The National Marine Sanctuary Program and National Estuarine Research Reserve System are two programs within OCRM that fulfill the office's mission of achieving sustainable use of our nation's coastal and ocean resources as well as maintaining marine and coastal biodiversity in special areas through long-term comprehensive management and protection. Both programs offer education programs that interpret ongoing site-specific research as well as promote public awareness, understanding, appreciation, and wise use of coastal and marine environments. Site programs are as varied as the coastal resources and range from hands-on studies of the coastal ecology and geology for high school students to community workshops for specific resource users.

Joyce Atkinson, National Education Coordinator  
NOAA/OCRM  
1305 East-West Highway  
SSMC4, 12th Floor  
Silver Spring, MD 20910  
(301) 713-3145, ext. 145  
Fax: (301) 713-0404  
E-mail: [jatkinson@ocean.nos.noaa.gov](mailto:jatkinson@ocean.nos.noaa.gov)

## **National Programs for K-12 Education**

### **National Sea Grant College Program**

Established in 1966 and administered by NOAA, this program combines the resources of the federal government with those at universities and states to develop and analyze the

nation's marine, coastal, and Great Lakes resources through research, education, and outreach. Grant proposals are reviewed and grants are normally awarded on an institutional basis through the Sea Grant college or institution designated in each coastal state. The Sea Grant colleges provide research opportunities for scientists and education for the general public about marine resources. Educational activities include graduate education and research apprenticeships, undergraduate education, K-12 teacher science skills, and public outreach.

National Sea Grant College Program  
National Oceanic and Atmospheric Administration  
1315 East-West Highway  
Silver Spring, MD 20910  
(301) 713-2431 / Fax: (301) 713-0799

### **National Sea Grant College Program**

The Global Change Education Program consists of Training the Trainer workshops for informal educators, NOAA employees, and local extension leaders. Workshop topics include natural variability, greenhouse/sea level rise, ozone depletion, resource consumption, and decision making under "scientific uncertainty."

The COASTAL Operation Pathfinder Program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Shirley Fiske, Outreach Program Director  
R/OR1, 1315 East-West Highway  
Silver Spring, MD 20910  
(301) 713-2431, ext. 148  
Fax: (301) 713-0799  
E-mail: [Shirley.Fiske@noaa.gov](mailto:Shirley.Fiske@noaa.gov)  
<http://www.mdsg.umd.edu/NSGO/>

### **NOAA National Environmental Satellite, Data, and Information Service (NESDIS)**

The primary educational goal of NESDIS is to enable teachers to access and interpret satellite imagery for use in teaching the Earth sciences. Data can be accessed either by direct readout from orbiting satellites or via the Internet service called the Satellite Active Archive (SAA). Imagery can be browsed and then downloaded in limited quantities. A new initiative of the SAA is the creation of learning modules on satellites, remote sensing, and applications of satellite data, including imagery interpretation. NESDIS also provides information on ordering archived satellite data. Scientists in NESDIS help teachers learn how to interpret satellite imagery for applications in the atmos-

pheric, marine, and terrestrial sciences. They give presentations at teacher conferences, conduct courses for groups of teachers near NESDIS facilities, and even give individual advice when possible.

Nina Jackson, NESDIS Diversity and Education Outreach Coordinator  
NOAA/NESDIS  
Room 2057, FB4  
Suitland, MD 20746  
(301) 457-5112 / Fax: (301) 457-5276  
[http://ns.noaa.gov/NESDIS/NESDIS\\_Home.html](http://ns.noaa.gov/NESDIS/NESDIS_Home.html)

### **NOAA National Weather Service (NWS)**

The primary mission of the NWS is the protection of life and property and the enhancement of the national economy. To fulfill this mission, the NWS issues forecasts and warnings to minimize the impact of severe weather on the public and on commercial enterprises. The NWS produces informative materials designed to prepare the public for severe weather conditions. Publications prepared in cooperation with the American Red Cross highlight the science and safety aspects of severe weather, such as hurricanes, tornadoes, thunderstorms, flash floods, and winter storms. In partnership with the American Meteorology Society, the NWS has developed a program to educate teachers in the sciences of meteorology and hydrology. This program, Project Atmosphere, provides two-week summer workshops for teachers at several NWS training and research locations. At each field office, the NWS has designated a Warning Coordination Meteorologist and a Science Operations Officer to interact with local community members, including the general public, emergency managers, educators, and the media.

Joan VonAhn  
NOAA National Weather Service  
Customer Service Core  
1325 East-West Highway  
Silver Spring, MD 20910  
(301) 713-0090  
<http://www.nws.noaa.gov/>

# U.S. Department of Defense (DoD)

*Nearly 2,000 years ago, the Greek philosopher Epictetus said, "Only the educated are free." His wisdom applies to nations as well as to individuals. At the Department of Defense, we base our strong commitment to quality education on the realities of life. Without well-educated Americans we cannot have a well-educated military force and without such a force we cannot hope to successfully defend our nation against those who seek to diminish us and our freedom. Mathematics and science skills are, therefore, vital building blocks of our democracy, and work to the benefit of all Americans.*

**William S. Cohen, Secretary  
U.S. Department of Defense**



## Mission

The mission of the U.S. Department of Defense (DoD) is to provide for national security.

## Background

DoD makes a major investment in education and training. The department has a vital interest in the ability of our nation to produce highly trained scientists and engineers. During the past 50 years, the Military Services and Defense Agencies have developed wide-ranging programs that support science and engineering education. The programs evolved independently as each DoD component sought to increase the numbers and to improve the quality of scientists and engineers available to meet their needs.

In traditional educational settings, DoD provides education for grades K-12 for more than 120,000 dependents in overseas locations through the Department of Defense Dependents Schools System and in U.S. locations where the local civilian schools cannot meet the needs of the dependent population. The DoD service academies, with a total enrollment of 11,800, graduated approximately 2,900 officers in 1995. Additionally, more than 881,000 current and former enlisted members of the armed services have applied for Montgomery GI Bill benefits since its enactment in 1985. These benefits provide subsidies to assist in completing college educations.

## Role in Mathematics and Science Education

Maintaining technological leadership is critical to both national defense strategy and economic well-being. The United States has consistently sought to develop and deploy superior weapon systems to project an imposing military presence that deters foreign aggression. Furthermore, in today's global marketplace, countries will be able to enjoy continued economic prosperity only if they are able to effectively exploit and adapt to emerging technologies.

To carry out these strategies, the United States must have an adequate supply of scientists and engineers. For DoD, the demand for scientists and engineers includes those for civilian employees of the department, military personnel, and defense contractor employees. DoD sponsors a wide range of educational programs to improve the quality of the pool of personnel from which scientists and engineers can be drawn and in this way to help ensure that science and engineering requirements are satisfied.

The department directly employs more than 100,000 scientists and engineers, approximately 3 percent of the national pool. Of this number, approximately 25,000 are engaged in research and development in the department's laboratories and centers.

More than 200 separate programs use a wide variety of approaches and methods to enhance science and engineering education at different educational levels. At the upper level, college and university professors guide advanced research and development efforts for specific DoD projects. Lower-level programs include sponsorship of elementary and secondary school science fairs, provision of tutoring and mentorship for students, and demonstrations and laboratory tours that stimulate interest in science and engineering. Many programs award scholarships, assistantships, and fellowships.

## Elementary and Secondary Education

Precollege programs range from short exposure tours, seminars, and science fairs to intensive tutoring and summer experience programs. The most effective programs are those, such as the High School Apprenticeship Programs, that encourage an interest in and cultivate enthusiasm for science and engineering careers and provide the necessary guidance.

## Higher Education

DoD support in the areas of science and engineering education includes undergraduate Reserve Officer Training Corps scholarships, graduate fellowships, national defense-related research conducted by graduate students, and

programs designed to enhance recruitment and retention of civilian employees in science and engineering career fields.

Effective recruiting programs include career intern programs, which recruit students from college campuses for an accelerated promotion track and advanced education opportunities. The Co-op Program provides students with early exposure to the work environment and helps foster understanding of federal job opportunities among students and college personnel. Postdoctoral research associateships provide a continuing supply of well-qualified graduate scientists and engineers for conducting research in DoD laboratories or in universities through grants and contracts.

DoD's Research Office provides opportunities for graduate students to work with university faculty members and explore topics of interest to the department. Fellowship opportunities are also provided through DoD laboratories, which may, upon degree completion, provide the recipient with employment opportunities.

## How Mathematics and Science Education Programs Are Administered

In 1991 the Department of Defense Authorization Act directed the Secretary of Defense to designate a Director of Defense Research and Engineering (DDR&E) responsible for implementing science, mathematics, and engineering educational improvement programs within DoD.

The structure for managing science and engineering educational activities within DoD consists of three elements. The DDR&E provides leadership. A Science and Engineering Education Panel (SEEP) serves as a review and advisory body to provide continuous oversight of and coordination among the military departments and defense agencies. Lab directors, program directors, and other managers within DoD components execute science and engineering education activities within their organizations.

DoD components exercise a great deal of discretion in conducting science and engineering programs. The DDR&E does not focus on execution, but instead delegates authority for operation of the programs to the organizational level. The DDR&E serves as an interface with other federal departments and agencies and, through SEEP, provides guidance and controls.

## Administrative Offices for Mathematics and Science Education

### Office of the Deputy Director, Defense Research and Engineering

This office oversees research at DoD facilities and advises on DoD educational programs.

Keith Thompson  
ODDR&E(R)  
Pentagon, Room 3E808  
Washington, DC 20301  
(703) 696-0378 / Fax: (703) 696-0569  
E-mail: thompskl@acq.osd.mil

## National Programs for K-12 Education

### High School Science and Mathematics Summer Faculty (HSSMF) Program

The HSSMF Program is part of the Scientific Service Program (SSP) contract awarded to and administered by Battelle. The program is sponsored by the Department of the Army through the U.S. Army Research Office (ARO) and by participating Army laboratories and centers. Its primary objective is to enable participating high school faculty to use their personal exposure to research and development activities at Army laboratories and centers to enhance their research and teaching skills and to encourage high school students to undertake careers in science and mathematics.

Applicants must be U.S. citizens and faculty members of accredited high schools or accredited secondary schools serving the seventh through the twelfth grades. They must teach one or more of the following disciplines: mathematics, physics, general science, engineering, chemistry, psychology, computer science, and biology. Awards are made to the most deserving applicants. Selected candidates receive a stipend of \$600 per week for a maximum of 10 weeks during the summer.

Candidates must live within commuting distance of the assigned laboratory or center.

Gary Hill  
Battelle, Research Triangle Park Office  
200 Park Drive  
PO Box 12297  
Research Triangle Park, NC 27709-2297  
(919) 549-8291 / DSN: 832-4264  
Fax: (919) 549-8205

### Junior Science and Humanities Symposium (JSHS) Program

JSHS Program objectives are to:

- ▶ Promote research and experimentation in the sciences, mathematics, and engineering at the high school level.
- ▶ Recognize the significance of research in human affairs and the importance of humane and ethical principles in the application of research results.
- ▶ Search out talented youth and their teachers, recognize their accomplishments at symposia, and encourage their continued interest and participation in the sciences, mathematics, and engineering.
- ▶ Expand the horizons of research-oriented students by exposing them to opportunities in the academic, industrial, and governmental communities.
- ▶ Increase the number of future adults capable of conducting research and development.

A typical symposium is held in an academic setting where attendees benefit from an active exchange of ideas with professionals and their peers. They hear lectures from distinguished scientists and observe ongoing research projects in university, Army, or corporate laboratory settings. Selected students also have the opportunity to present the results of their original research before the audience. More than 8,000 students and teachers participate annually in 47 regional symposia held throughout the United States, Europe, Japan, and Puerto Rico.

Peggy Lacewell  
U.S. Army Research Office  
4300 South Miami Boulevard  
PO Box 12211  
Research Triangle Park, NC 27709-2211  
(919) 549-4339 / DSN: 832-4339  
<http://www.aro.army.mil/index.htm>

### National Science Center (NSC)

The NSC and its multifaceted programs are supported by the United States Army. Programs are designed to increase student

interest in science, mathematics, and technology; to improve skills of teachers; and to provide mathematics and science education support in the classroom. The NSC provides hands-on workshops for teachers in science, mathematics, electronics, and computers; it also offers camps nationwide in the same subjects for students. Portable planetariums for instruction in space science, astronomy, geography, and biology are available on loan to teachers who have been certified through the center's comprehensive training program. In addition, NSC operates a discovery center that offers interactive experiences with scientific exhibits to school groups and the public. Mobile versions of the discovery center travel nationwide. NSC also reaches out nationally with satellite teleconference programs on science education and with a Science-by-Mail program that encourages pen pal relationships between students and scientists.

National Science Center  
Attention: ATZH-NSC-D  
Building 25722  
Fort Gordon, GA 30905-5689  
(706) 821-0200  
<http://www.nscdiscovery.org/>

### Naval Science Awards Program

The Navy and Marine Corps participate each year in district, regional, and state science and engineering fairs that exhibit various projects submitted by students in grades 9-12. At each participating fair, four students whose projects are considered to demonstrate excellence in any field of endeavor, not necessarily military or nautical, are designated as first-place Navy/Marine Corps Distinguished Achievement Award Winners. The students receive a certificate, a programmable scientific calculator, and an invitation to submit a written report of their winning project to the National Naval Science Award Program Competition held in May. Approximately 25 winners of this competition are awarded scholarships and science-oriented trips. The Navy and Marine Corps also participate in the annual International Science and Engineering Fair (ISEF), sponsored by Science Service, Inc., and award scholarships in each of the scientific disciplines. Award recipients must be citizens of the United States or its territories at the time of their selection.

Project Officer  
Naval Science Awards Program  
Office of Naval Research  
Code 353  
800 North Quincy Street  
Arlington, VA 22217-5660  
(703) 696-5787 / Fax: (800) 422-6727



### **Navy Community Service Program (NCSP)**

The NCSP is a worldwide program that encourages Navy military and civilian employees to volunteer their time and talent to help educate and encourage youth to develop social responsibility, fitness, and natural resource stewardship. The Navy currently participates in several hundred volunteer partnerships with schools. These arrangements provide tutoring, mentoring, and other community-based projects. Projects are geared toward, but not limited to, strengthening student skills in mathematics, science, engineering, and environmental conservation. See the State Highlights section of this publication for regional NCSP offices.

LCDR Kathy Rivinius  
Navy Community Service Program  
Navy Personnel Command  
Pers-605  
7800 3rd Avenue  
Building 457, Room 249  
Millington, TN 38054-5056  
(703) 693-3311  
E-mail: [p605@persnet.navy.mil](mailto:p605@persnet.navy.mil)  
<http://mintaka.spawar.navy.mil/usn/ncsp/index-r.html>

### **Research and Engineering Apprenticeship Program (REAP)**

REAP was initiated in 1980 to encourage socially and economically disadvantaged youth to pursue studies in science and engineering. The REAP experience provides a cooperative education (work/study) program that affords hands-on experience in Army research and development activities to high school students who may choose to enter and complete basic education in science and engineering. High school students are accepted for apprenticeships at universities under the mentorship of a university faculty member. The students are paid during work periods ranging from four to 13 weeks and work directly under a mentor scientist or engineer who provides guidance on day-to-day job activities and information on career opportunities in science and engineering.

Peggy Lacewell  
U.S. Army Research Office  
4300 South Miami Boulevard  
PO Box 12211  
Research Triangle Park, NC 27709-2211  
(919) 549-4339 / DSN: 832-4339  
<http://www.aro.army.mil/index.htm>

### **Science and Engineering Apprentice Program (SEAP)**

This program, coordinated and administered by The George Washington University (GWU), places academically talented high school students with interest and ability in science and mathematics as apprentices in more than 40 DoD research activities for eight weeks during the summer. These students work with scientists and engineers who act as mentors. Participating laboratories are encouraged to give special consideration to females and to members of underrepresented minority groups. Specific minority programs are held on the GWU campus in the summer. See the State Highlights section of this publication for participating research activities.

Marilyn Krupsaw  
GWU/SEAS  
Science and Engineering Apprentice Program  
707 22nd Street NW  
Washington, DC 20052  
(202) 994-2234

### **Undergraduate Training Program**

Developed particularly for minority high school students, this program provides full tuition to any university or college for outstanding students who plan to major in electrical or computer engineering, computer science, mathematics, or selected languages. Recipients are guaranteed summer employment during school and permanent employment within the National Security Agency upon graduation. Program participants are required to work for the National Security Agency after graduation for at least one and a half times their length of study.

National Security Agency  
Undergraduate Training Program  
Attention: M3222  
Fort Meade, MD 20755-6000  
(800) 669-0703 / Fax: (800) 962-9398  
<http://www.nsa.gov:8080/>

# U.S. Department of Education (ED)

*The Department of Education is fully committed to National Education Goal Five, that by the Year 2000, American students will be first in the world in mathematics and science achievement.*

**Richard W. Riley, Secretary**  
**U.S. Department of Education**



## Mission

The mission of the U.S. Department of Education (ED) is to ensure equal access to education and to promote educational excellence throughout the nation. The department has four major responsibilities:

- ▶ To collect data and oversee research on America's schools and to disseminate this information to educators and the public.
- ▶ To identify and focus national attention on major issues and problems in education.
- ▶ To enforce federal statutes prohibiting discrimination in programs and activities receiving federal funds and to ensure equal access to education for everyone.
- ▶ To establish policies relating to federal financial aid for education, to administer distribution of those funds, and to monitor their use.

## Background

Originally created as a non-Cabinet-level department in 1867, it soon became the Office of Education, where for more than a century it served primarily to collect information and statistics about the nation's schools. In the late 1950s the office's mission was expanded when concerns about the quality of education led to the creation of various programs to improve it. These programs were increased in the 1970s to support national efforts to help students gain equal access to quality education. In October 1979, Congress passed Public Law 96-88, creating the current U.S. Department of Education.

## Role in Mathematics and Science Education

ED provides resources to increase opportunities for students to learn mathematics and science. The department also supports research and assistance programs to improve mathematics and science education, collects data on student learning, and conducts studies on the condition of science and mathematics education.

ED's role is broadly based and connected to every level of formal education. Programs reach nearly every school system and postsecondary institution. These programs support mathematics, science, and technical education for disadvantaged and handicapped students and those for whom English is a second language. ED also supports the integration of science and mathematics learning with vocational and technical education. However, since most of ED's funds are allocated by formula, the actual amount expended on mathematics and science education is often determined by the grant recipient.

With the passage in 1994 of the Educate America Act: Goals 2000, which calls for states and school districts to develop systemic plans for educational reform, ED expects that mathematics and science activities will be increasingly integral to the new reforms. Also, passage of the Improving America's Schools Act of 1994 expanded the scope of the ED-funded Eisenhower Program to all of the core academic subjects, which serves to integrate mathematics and science activities to a greater degree with other subjects.

## Elementary and Secondary Education

Approximately 95 percent of direct ED mathematics and science programs serve the precollege level. The department aims to provide a balanced portfolio of programs that will benefit teachers, students, and schools at all educational levels. The cornerstone of ED's effort is the Eisenhower Mathematics and Science Education State Grant Program, which is the largest single K-12 mathematics and science program supported by any federal agency.

## Higher Education

Most ED postsecondary education funds are allocated through grants or individual student financial aid. While many programs support opportunities to learn mathematics and science, only a few programs, such as the National Science Scholars Program, are directly targeted at these subjects; other postsecondary programs address broader educational purposes.

## How Mathematics and Science Education Programs Are Administered

ED does not have a single major operating unit specifically charged with overseeing mathematics and science education. Rather, it is organized by educational level (elementary and secondary education and postsecondary education) and particular educational concern (e.g., educational research and improvement, and vocational, bilingual, and special education). Mathematics and science education activities are carried out within these larger units.

## Administrative Offices for Mathematics and Science Education

### Mathematics Initiative

ED has made improving mathematics instruction in the middle grades one of its seven major priorities. The Mathematics Initiative is housed in the Deputy Secretary's office and coordinates efforts throughout the department and with the National Science Foundation.

Judy Wurtzel, Director  
Mathematics Initiative  
Room 6251, FB 10  
600 Independence Avenue SW  
Washington, DC 20202  
(202) 401-3389  
<http://www.ed.gov/inits.html#2>

### Office of Educational Research and Improvement (OERI)

OERI supports and conducts research on education, collects and analyzes education statistics, disseminates information, and supports and improves library education and services. The Eisenhower Federal Activities Program specifically supports mathematics and science. In general, however, mathematics and science are part of the broader OERI educational mission.

Office of Educational Research and Improvement  
Office of Reform Assistance and Dissemination  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208-5645  
(202) 219-2116 / Fax: (202) 219-2053  
<http://oeri.ed.gov/offices/OERI/>

### Office of Elementary and Secondary Education (OESE)

OESE supports elementary and secondary education through such programs as the Eisenhower Professional Development Program, which supports sustained and intensive high-quality professional development in the core academic subjects, including mathematics and science. Other programs within OESE, such as Title I, Compensatory Education, have a broader educational mission and also support professional development.

Christine Jackson / Audrey M. Smith,  
Education Program Specialists  
Office of Elementary and Secondary Education  
U.S. Department of Education  
Portals Building  
600 Independence Avenue SW  
Washington, DC 20202-6140  
(202) 260-2465 / Fax: (202) 205-0302  
E-mail: [Christine\\_Jackson@ed.gov](mailto:Christine_Jackson@ed.gov) or  
[Audrey\\_Smith@ed.gov](mailto:Audrey_Smith@ed.gov)  
<http://oeri.ed.gov/offices/OESE/>

### Office of Postsecondary Education (OPE)

This office supports postsecondary education through federal student aid and programs in higher education, including international education, Historically Black Colleges and Universities, and accreditation. Although most of the programs do not specifically target mathematics and science education, they may be used to support those content areas.

Office of Postsecondary Education  
U.S. Department of Education  
Regional Office Building  
7th and D Streets SW  
Washington, DC 20202-5100  
(202) 708-5547  
<http://oeri.ed.gov/offices/OPE/>

## National Programs for K-12 Education

### Blue Ribbon Schools Program

This program identifies and gives national recognition to public and private schools that are unusually effective in meeting national, state, and local goals and in educating their students. The program honors schools that show outstanding effectiveness in leadership, organizational vitality, teaching environment,

curriculum and instruction, student environment, and parent and community support. To be recognized as a national school of excellence, the school must have unusually strong programs in all areas of school life. Elementary schools and secondary schools are recognized in alternate years. Recognized schools may also receive optional honors in specific areas.

Sharon Bobbitt  
Office of Educational Research and Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20808-5643  
(202) 219-2217  
<http://www.ed.gov/offices/OERI/BlueRibbonSchools/>

### Center for Research on the Education of Students Placed at Risk

This project develops programs for elementary school mathematics, science, and social studies that are based on the premise that children are active constructors of knowledge. These programs emphasize discovery, experimentation, cooperative learning, and open-ended problem solving. They are being developed and evaluated in high-poverty urban and rural schools.

Roots and Wings Project  
Center for Research on the Education of Students Placed at Risk  
The Johns Hopkins University  
3505 North Charles Street  
Baltimore, MD 21218  
(410) 516-8800 / Fax: (410) 516-8890  
E-mail: [jhollifi@inet.ed.gov](mailto:jhollifi@inet.ed.gov)  
<http://successforall.com/>

### Eisenhower National Clearinghouse for Mathematics and Science Education (ENC)

ENC identifies and collects effective curriculum resources, creates high-quality professional development materials, and disseminates useful information and products to improve K-12 mathematics and science teaching and learning. For more information on ENC, see page vii.

Len Simutis, Director  
Eisenhower National Clearinghouse  
for Mathematics and Science Education  
The Ohio State University  
1929 Kenny Road  
Columbus, OH 43210-1079  
(614) 292-7784 / Fax: (614) 292-2066  
(800) 621-5785  
E-mail: [info@enc.org](mailto:info@enc.org)  
<http://www.enc.org/>

### Eisenhower Professional Development Federal Activities Program

Under legislation passed in 1994, the Eisenhower Program was expanded to cover all core academic subjects. The program currently

focuses on projects that seek to transform the education system to achieve high standards of student performance through systemic reform. The Eisenhower National Clearinghouse and the Eisenhower Regional Consortia, which are described in this section, illustrate activities supported by the program. The program also supports the National Board for Professional Teaching Standards. Discretionary grant competitions will be held annually depending on availability of funds.

Eisenhower Professional Development  
Federal Activities Program  
Office of Educational Research and Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW, Room 502  
Washington, DC 20208-5572  
(202) 219-2116 / Fax: (202) 219-2053

### Eisenhower Professional Development Program

Title II of the Elementary and Secondary Education Act of 1965 (ESEA), as amended, was enacted in 1994 as part of the Improving America's Schools Act. Title II is the largest federal program supporting professional development activities to improve teaching and learning. This program provides formula grant assistance to state and local education agencies, institutions of higher education, and nonprofit organizations to help ensure that teachers and other staff and administrators have access to high-quality professional development.

Christine Jackson / Audrey M. Smith,  
Education Program Specialists  
Office of Elementary and Secondary Education  
U.S. Department of Education  
600 Independence Avenue SW  
Washington, DC 20202-6140  
(202) 260-2516 or 2465 / Fax: (202) 205-5630  
E-mail: [Christine\\_Jackson@ed.gov](mailto:Christine_Jackson@ed.gov) or  
[Audrey\\_Smith@ed.gov](mailto:Audrey_Smith@ed.gov)

### Eisenhower Professional Development State Grants Program

Part B of Title II (see above) authorizes the state formula grant program. Under this program, funds flow through the states to local schools by formula and to institutions of higher education and nonprofit organizations by competitions administered by state agencies for higher education. The grants support and help shape state and local professional development activities in the core academic subjects with a continued focus on mathematics and science. For specific information on your state, contact the Eisenhower Coordinator for the State Educational Agency (K-12) or the State Agency for Higher Education listed in the State Highlights section of this publication.

Office of Elementary and Secondary  
Education  
U.S. Department of Education  
Portals Building  
600 Independence Avenue SW  
Washington, DC 20202-6140  
(202) 260-2465 / Fax: (202) 205-0302

### Eisenhower Regional Consortia Program

This program funds 10 Regional Mathematics and Science Education Consortia. Working closely with the Eisenhower National Clearinghouse, the consortia provide information and technical assistance to help states and school districts provide improved mathematics and science programs in accordance with national standards. They also train and provide technical assistance to teachers, administrators, and other educators to help them use exemplary instructional materials, teaching methods, curricula, and assessment tools.

Annora Bryant  
Eisenhower Regional Consortia Program  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW, Room 502  
Washington, DC 20208-5572  
(202) 219-2087 / Fax: (202) 219-2053  
E-mail: annora\_bryant@ed.gov

### ERIC (Educational Resources Information Center)

ERIC is an international information network that acquires, catalogs, and provides access to educational literature. The ERIC system comprises 16 subject-specific clearinghouses; a central processing and reference facility; a document reproduction service; and ACCESS ERIC, a one-stop contact point for new users of the system. To learn more about ERIC, visit <http://oeri.ed.gov/EdRes/EdFed/ERIC.html> or contact ACCESS ERIC at (800) LET-ERIC.

The ERIC Clearinghouse for Science, Mathematics, and Environmental Education, located at The Ohio State University, acquires, selects, and processes high-quality printed materials (such as reports, curricula and instructional materials, evaluations, and information on programs, practices, and policies) in science, mathematics, and environmental education. It provides a variety of services and products to help educators, administrators, researchers, and others stay current on a broad range of issues. The clearinghouse also provides reference and referral services in science and mathematics and maintains partnerships for the exchange of information with numerous other organizations. In addition, it produces publications, bibliographies, ERIC Digests, syntheses, and summaries on mathematics and science topics, and compilations of promising programs and practices.

David Haury, Director  
ERIC Clearinghouse for Science,  
Mathematics, and Environmental Education  
The Ohio State University  
1929 Kenny Road  
Columbus, OH 43210-1080  
(614) 292-6717 or (800) 276-0462  
E-mail: ericse@osu.edu  
<http://www.ericse.org/>

### Field-Initiated Studies Program

ED, through OERI, funds educational research projects proposed by individuals; institutions of higher education; and public and private institutions, organizations, and agencies. Applicants propose research topics related to OERI's five national institutes:

National Institute on Early Childhood  
Development and Education  
Attention: Joseph Caliguro  
(202) 219-1596

National Institute on Education of At-Risk  
Students  
Attention: Beth Fine  
(202) 219-1315

National Institute on Governance, Finance,  
Policy-Making, and Management  
Attention: Edward Fuentes  
(202) 219-2032

National Institute on Postsecondary  
Education, Libraries, and Lifelong Learning  
Attention: Delores Monroe  
(202) 219-2229

National Institute on Student Achievement,  
Curriculum, and Assessment  
Attention: Clara Lawson-Copeland  
(202) 219-2028

To contact a specific institute, include the appropriate "attention" information provided above. One application package contains information regarding all five institutes. To request an application, contact:

Field-Initiated Studies Program  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW, Room 620  
Washington, DC 20208-5531  
E-mail: fis@inet.ed.gov

### Fund for the Improvement of Education

This fund supports nationally significant programs to improve the quality of education, assist all students to meet challenging state content standards, and contribute to the achievement of the National Education Goals.

Lois N. Weinberg  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW, Room 502h  
Washington, DC 20208-5645  
(202) 219-2147 / Fax: (202) 219-2053  
E-mail: lweinberg@inet.ed.gov

### Javits Gifted and Talented Students Education Program

This program funds projects that help schools identify and respond to the special education needs of gifted and talented students, especially those who are disadvantaged, handicapped, or have limited English proficiency.

Pat O'Connell Ross / Elizabeth Barnes  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208-5645  
(202) 219-2116 / Fax: (202) 219-2053  
E-mail: Patricia\_Ross@ed.gov or  
Elizabeth\_Barnes@ed.gov

### National Assessment of Educational Progress (NAEP)

NAEP has measured the educational achievement of American students for more than two decades. Its 1996 mathematics and science assessments of fourth, eighth, and twelfth graders featured several testing innovations. In mathematics and science, students devoted more than half their time to "constructed response" questions that may have included extended problem solving. The science assessment contained a hands-on task for all students, a study of portfolios for fourth and eighth graders, and an assessment of the best twelfth graders. The mathematics assessment measured students' estimating skills, allowing them to use calculators more often than in the past. Results from the 1992 NAEP mathematics assessment are available from the National Center for Educational Statistics at OERI.

Gary W. Phillips  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208  
(202) 219-1761  
<http://nces.ed.gov/NAEP/>

### National Education Longitudinal Study of 1988 (NELS:88)

Through NELS:88, the National Center for Educational Statistics is following a sample of 25,000 eighth graders on a two-year cycle. Individual cohort members (including dropouts in the follow-ups), along with their parents, principals, and teachers, were surveyed in 1988, 1990, and 1992. These same members were resurveyed in 1994. To allow researchers to examine cognitive growth over



time, test data in mathematics, science, reading, and social studies also were collected from members. Other data collected by NELS:88 include enrollment patterns in mathematics and science courses, student attitudes toward those subjects, instructional practices used by their teachers, and high school transcripts.

Jeff Owens  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208  
(202) 219-1777

### **National Research and Development Center on Achievement in School Mathematics and Science**

This center is one of seven national education, research, and development centers supported by ED. The research projects at the core of the center's activities are organized around five thematic elements: modeling, argument and standards of evidence, big ideas and technologies, equity, and assessment. Studies are carried out as part of design collaboratives, in which researchers work with teachers and schools at the elementary, middle, and high school levels. The goal is to design and implement "test beds" to support the development and validation of practices leading to higher levels of achievement for all students.

Thomas A. Romberg  
School Mathematics and Science  
Achievement Center  
Wisconsin Center for Education Research  
University of Wisconsin-Madison  
1025 West Johnson Street  
Madison, WI 53706  
(608) 263-3406 / Fax: (608) 263-3406  
<http://www.wcer.wisc.edu/>

### **National Science Standards**

The National Research Council of the National Academy of Sciences, with a grant from the Eisenhower National Program, developed science content standards that specify what students are expected to learn in grades K-12. Teachers and other science educators, scientists, and the general public were extensively involved in reviewing and refining the standards. More than 80 organizations served as liaisons to the project. Draft content standards were distributed in late 1994. Separate working groups, funded by a coalition of other federal agencies, developed teaching and assessment standards in close cooperation with those who developed the content standards. A complete set of the final standards—content, teaching, and assessment—was disseminated in late 1995. (The National Council of Teachers of Mathematics has already developed mathematics standards that are in use across the country.)

Dr. Angelo Collins, Director  
National Science Education Standards  
Project  
National Research Council  
2101 Constitution Avenue NW, HA 486  
Washington, DC 20418  
(202) 334-3417  
<http://www.nap.edu/readingroom/books/nses/>

### **Regional Educational Laboratories**

Through the Office of Educational Research and Improvement, ED funds a network of 10 regional educational laboratories, each serving a specific region of the United States, including its territories. The laboratories identify effective teaching techniques and school improvement efforts within their regions, provide technical assistance, and share information with state and local educators through newsletters, research syntheses, conferences, and electronic media. As part of their overall program, which is not subject-matter specific, the laboratories have undertaken an initiative to improve mathematics and science education. They are collecting, analyzing, and synthesizing information about curriculum frameworks, performance assessment methods, and successful mathematics and science programs and practices.

Robert Stonehill  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2187 / Fax: (202) 219-2106

### **Regional Technology in Education Consortia (R\*TEC)**

ED, through OERI, established the R\*TEC program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions effectively use advanced technologies to support improved teaching and student achievement. The R\*TECs' role in educational technology is unique in two ways: their emphasis is regional, and their primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination. The R\*TECs work in a complementary and collaborative way with technical assistance providers funded by ED—such as the Comprehensive Regional Assistance Centers, the Eisenhower Regional Consortia for Mathematics and Science Education, and the Regional Educational Laboratories—and with other nationwide educational technology support efforts, such as TechCorps.

Catherine Mozer Connor, Project Officer  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)  
<http://rtec.org/>

### **Star Schools Program**

This program funds partnerships that use telecommunications and other technologies to improve educational opportunities for students in mathematics, science, foreign languages, literacy skills, vocational education, and other subjects. Services, including programming and equipment, have been provided to schools and communities in both rural and urban areas. The program supports a variety of technologies, including satellite, fiber optics, compressed video, computer networks, and cable.

Joseph Wilkes  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208-5645  
(202) 219-2186  
E-mail: [jwilkes@inet.ed.gov](mailto:jwilkes@inet.ed.gov)  
[http://www.ed.gov/prog\\_info/StarSchools/](http://www.ed.gov/prog_info/StarSchools/)

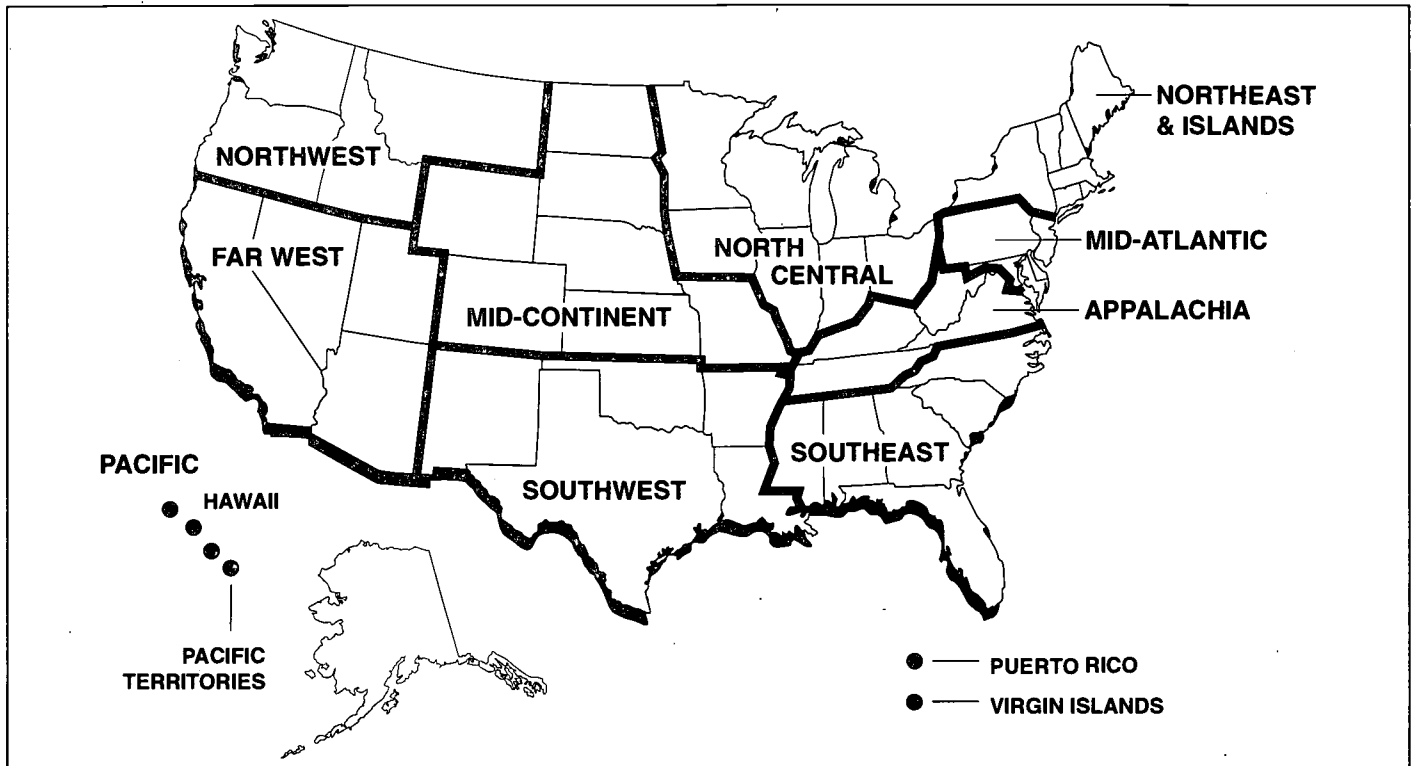
### **Third International Mathematics and Science Study (TIMSS)**

The National Center for Education Statistics has conducted the U.S. portion of TIMSS, which was coordinated by the International Association for the Evaluation of Education Achievement. The study measures student achievement in mathematics and science in more than 40 countries. In 1995, each country assessed fourth, eighth, and twelfth grade students and twelfth-grade specialists in mathematics and science. The study focuses on student proficiency and also includes performance assessments, a videotape study of instructional practices, and case studies of key policy issues in education. TIMSS also surveyed teacher, school, home, and societal factors to provide a context in which to gauge student achievement and differences among countries. Test results have been released for all grade levels tested.

Eugene Owen / Marilyn Binkley  
Office of Educational Research and  
Improvement  
U.S. Department of Education  
555 New Jersey Avenue NW  
Washington, DC 20208-5574  
(202) 219-1333  
<http://nces.ed.gov/timss/>

# U.S. Department of Education (ED)

## Eisenhower National Clearinghouse and Regional Consortia



The Eisenhower National Program supports a National Clearinghouse and 10 Regional Consortia that together form a coordinated, field-based network to promote systemic reform of mathematics and science education. Working closely with the Regional Consortia, the Eisenhower National Clearinghouse collects, catalogs, and disseminates information, curriculum materials, and other resources for K-12 mathematics and science education. At the state and local levels, the Regional Consortia provide information and technical assistance to educators and policymakers. The regional service boundaries of the consortia are identical to those of the regional educational laboratories.

### Regional Consortia

*Appalachia Region*  
Eisenhower Regional Math/Science Consortium at AEL  
Arlington, Virginia

*Far West Region*  
WestEd Eisenhower Regional Consortium for Science and Mathematics Education  
San Francisco, California

*Mid-Atlantic Region*  
Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education  
Philadelphia, Pennsylvania

*Mid-continent Region*  
Eisenhower High Plains Consortium for Mathematics and Science  
Aurora, Colorado

*North Central Region*  
Midwest Consortium for Mathematics and Science Education  
Oak Brook, Illinois

*Northeast and Islands Region*  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
Cambridge, Massachusetts

*Northwest Region*  
Science and Mathematics Consortium for Northwest Schools  
Portland, Oregon

*Pacific Region*  
Pacific Mathematics and Science Regional Consortium  
Honolulu, Hawaii

*Southeast Region*  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
Tallahassee, Florida

*Southwest Region*  
Eisenhower Southwest Consortium for the Improvement of Mathematics and Science Teaching  
Austin, Texas

### National Clearinghouse

Eisenhower National Clearinghouse for Mathematics and Science Education (ENC)  
Columbus, Ohio

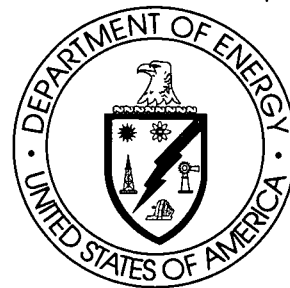
ENC Capital Collection & Demonstration Site  
Washington, DC

### National Program Office

Eisenhower Professional Development  
Federal Activities Program  
Office of Educational Research and Improvement  
Washington, DC

*Note:* For complete contact information, refer to the appropriate region in Section II of this publication. Information verified May, 1998.

# U.S. Department of Energy (DOE)



## Mission

The Department of Energy (DOE), in partnership with our customers, contributes to the welfare of the nation by providing the technical information and the scientific and educational foundation for the technology, policy, and institutional leadership necessary to achieve efficiency in energy use, diversity in energy sources, a more productive and competitive economy, improved environmental quality, and a secure national defense.

## Background

DOE was created in 1977 by the Department of Energy Organization Act, which consolidated into one Cabinet-level department the responsibilities previously carried out under the Atomic Energy Commission, the Energy Research and Development Administration, and several other small, independent energy-related agencies and offices in other federal departments. DOE and its contractors employ approximately 146,000 men and women, more than one-third of whom fill positions in DOE's scientific, engineering, and technical workforce. In addition to DOE's headquarters components, the department has an extensive field structure of national laboratories, research facilities, regional operations and support offices, and regional power administrations that are dispersed across urban and rural areas of the United States.

## Role in Mathematics and Science Education

In recognition of its need for well-educated, highly skilled scientific and technical personnel to carry out its basic research and development and operational missions, DOE has made education an essential part of its mission. The department provides opportunities for students and faculty to use its laboratories and facilities for hands-on research experiences. It supports the national effort to improve science education for all students through local and regional educational partnerships. DOE promotes increased participa-

tion of traditionally underrepresented populations in mathematics, science, engineering, and technology in the department's education programs and partnerships.

### Elementary and Secondary

DOE utilizes the unique scientific and technical resources of its laboratories through local and regional education partnerships with urban and rural school districts, businesses, and industry. These partnerships introduce new approaches to teaching science and mathematics and contribute to systemic improvement in science, mathematics, engineering, and technology education.

### Higher Education

As part of a continuum of efforts to keep students in the science pipeline, DOE supports undergraduate, graduate, postgraduate, and faculty-level science education programs, including those that encourage students from underrepresented groups to pursue scientific and technical studies and participate in cutting-edge research. These activities include research participation appointments, fellowships, faculty institutes and workshops, conferences, and visiting staff lectures.

## How Mathematics and Science Education Programs Are Administered

DOE educational programs are administered by the Office of Science Education and Technical Information through its 10 national laboratories, more than 30 specialized research facilities, and area, field, regional, and operation offices. Each facility conducts its own education programs and makes its resources available to precollege and university faculty and students. Each center plans and administers a range of precollege and university science education programs that vary according to laboratory specialization and local needs. The programs place special emphasis on providing students and their teachers with hands-on experiences in cutting-edge science and technology.

## Administrative Offices for Mathematics and Science Education

### AlliedSignal Aerospace Company

The company's Kansas City plant produces nonnuclear components, including electrical and electronic products, mechanical products, and plastic products.

Jane Jankowski, Public Affairs Office  
AlliedSignal Aerospace Company  
Federal Manufacturing and Technologies  
PO Box 419159  
2000 East 95th Street  
Kansas City, MO 64141-6159  
(816) 997-3579 / Fax: (816) 997-7259  
<http://www.allied.com/>

### Ames Laboratory

This laboratory conducts fundamental research in the physical, chemical, materials, mathematical, engineering, and environmental sciences that underlie energy-generation, conversion, and transmission technologies.

Chris Ohana, Coordinator  
Ames Laboratory Education Programs  
252 TASF  
Ames Laboratory  
Iowa State University  
Ames, IA 50011  
(515) 294-2109 / Fax: (515) 294-6206  
E-mail: [ohana@iastate.edu](mailto:ohana@iastate.edu)  
<http://www.external.ameslab.gov/>

### Argonne National Laboratory

This large multiprogram laboratory is operated by the University of Chicago. Its mission is basic research and technology development to meet national goals in energy technology, environmental quality, industrial competitiveness, scientific leadership, and educational infrastructure. The laboratory strives to improve its leading-edge capabilities in science and engineering with an emphasis on its recognized core competencies.



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### **Associated Western Universities, Inc.**

This consortium of 65 colleges and universities administers a variety of national and regional science education programs, including those at the precollege level.

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Salt Lake City, UT 84124  
(801) 273-8900 / Fax: (801) 277-5632  
E-mail: info@awu.org  
<http://www.awu.org/>

### **Bates Linear Accelerator Center**

Operated by the Massachusetts Institute of Technology, this academic nuclear physics research laboratory produces highly skilled scientists and fundamental knowledge in nuclear and particle physics.

Ken Jacobs, Research Scientist  
Bates Linear Accelerator Center  
PO Box 846  
Middleton, MA 01949  
(617) 253-9200 / Fax: (617) 253-9599  
E-mail: kjacobs@mit.edu  
<http://mitbates.mit.edu/>

### **Bechtel Nevada**

This laboratory provides management and engineering services to the DOE Nevada Operations Office facilities. Activities include developing leading-edge technologies in numerous disciplines.

Kurt P. Arnold, Communications Specialist  
Bechtel Nevada  
Strategic Communications  
PO Box 98521, M/S NLV030  
Las Vegas, NV 89193-8521  
(702) 295-5792 / Fax: (702) 295-1859  
E-mail: arnoldkp@doe.nv.gov  
<http://www.nv.doe.gov/about/bn.htm>

### **Bonneville Power Administration**

This DOE power marketing administration services the Pacific Northwest states (Oregon, Washington, Idaho, and western Montana).

Joan McNamara, Community Education  
Coordinator  
Bonneville Power Administration  
PO Box 3621 AR-7-C  
Portland, OR 97208-3621  
(503) 230-3709 / Fax: (503) 230-5884  
E-mail: jhmcnamara@bpa.gov  
<http://www.bpa.gov/>

### **Brookhaven National Laboratory**

This laboratory conducts applied research in the physical, biomedical, and environmental sciences and in selected energy technologies.

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Brookhaven National Laboratory  
14 Brookhaven Avenue, Building 438  
PO Box 5000  
Upton, NY 11973-5000  
(516) 344-7171 / Fax: (516) 344-5832  
E-mail: swyler1@bnl.gov  
<http://www.bnl.gov/bnl.html>

### **Federal Energy Technology Center**

This center conducts research on fossil energy, clean coal technology, and environmental protection.

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Technical Advisor  
Federal Energy Technology Center  
PO Box 10940  
Pittsburgh, PA 15236  
(412) 892-4913 / Fax: (412) 892-4152  
E-mail: wildman@fetc.doe.gov

(West Virginia Office)  
PO Box 880  
Morgantown, WV 26507-0880  
<http://www.fetc.doe.gov/>

### **Fermi National Accelerator Laboratory**

This laboratory conceives, develops, constructs, and operates complex facilities for the fundamental research of high-energy physics and the properties of matter.

Marjorie G. Bardeen, Education Office  
Fermi National Accelerator Laboratory  
PO Box 500, MS 226  
Batavia, IL 60510  
(630) 840-2031 / Fax: (630) 840-8248  
E-mail: mbardeen@fnal.gov  
<http://www-ed.fnal.gov/>

### **Fernald Environmental Management Project**

This project focuses on waste management, environmental restoration, and other environmental safety and health compliance issues.

Sue Walpole, Public Affairs  
Fernald Environmental Management Project  
PO Box 538704  
Cincinnati, OH 45253-8704  
(513) 648-4026 / Fax: (513) 648-4011  
E-mail: swalpole@fernald.gov  
<http://www.fernald.gov/>

### **Idaho National Engineering and Environmental Laboratory**

This is the DOE lead laboratory for systems engineering. Major mission areas include nuclear research and development, environmental management, fuel reprocessing, and waste management. Biotechnology applications, agricultural engineering, and applied engineering are emerging research and development programs.

Connie J. Blackwood, Manager  
Academic and Education Relations  
Idaho National Engineering and Environmental Laboratory  
PO Box 1625, MS 2437  
Idaho Falls, ID 83415  
(208) 526-9221 / Fax: (208) 526-1880  
E-mail: cb6@inel.gov  
<http://www.inel.gov/academic/>

### **Lawrence Berkeley National Laboratory**

This laboratory supports research activities in fields ranging from astrophysics to energy conservation.

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Lawrence Berkeley National Laboratory  
Center for Science and Engineering Research  
One Cyclotron Road, Building 938C  
Berkeley, CA 94720  
(510) 486-5325 / Fax: (510) 486-6660  
E-mail: rjotto@lbl.gov  
<http://www.lbl.gov/>

### **Lawrence Livermore National Laboratory**

This laboratory serves as a major national resource in applied science and engineering.

Barry Goldman, Acting Education Program Manager  
Lawrence Livermore National Laboratory  
7000 East Avenue, PO Box 808, L-1  
Livermore, CA 94551  
(925) 422-5177 / Fax: (925) 422-6079  
E-mail: goldman1@llnl.gov  
<http://www.llnl.gov/>

### **Los Alamos National Laboratory**

This laboratory has the dual mission of developing nuclear weapons and of applying science and technology to major problems of interest to the country.

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Science Education Programs  
Los Alamos National Laboratory  
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Los Alamos, NM 87545  
(505) 667-8680 / Fax: (505) 665-6871  
E-mail: dgill@lanl.gov  
<http://www.lanl.gov/external/index.html>

### **National Petroleum Technology Office (NPTO)**

NPTO supports DOE's National Oil Program. Research, development, and technology transfer programs at NPTO assist oil operators in applying methods to sustain production of oil and gas from domestic reservoirs, improve efficiency of refinery processes, and maintain the quality of the environment.

Herb Tiedemann  
National Petroleum Technology Office  
Williams Center Tower 1  
One West Third Street  
Tulsa, OK 74103  
E-mail: htiedema@npto.doe.gov  
<http://www.npto.doe.gov/>

### **National Renewable Energy Laboratory (NREL)**

NREL is the only DOE laboratory dedicated to research and development of renewable energy and energy efficient technologies and facilitating commercialization.

Linda Lung, Education Programs Manager  
1617 Cole Boulevard, Building 17  
Golden, CO 80401-3393  
(303) 275-3044 / Fax: (303) 275-3076  
(800) NEW-ENGY  
E-mail: linda\_lung@nrel.gov  
<http://www.nrel.gov/business/education.html>

### **Oak Ridge Institute for Science and Education**

This institute administers a wide range of local, national, and international programs in energy-related education, training, and research.

Wayne Stevenson, Director  
Science and Engineering Education  
Oak Ridge Institute for Science and Education  
PO Box 117  
Oak Ridge, TN 37831-0117  
(423) 576-3283 / Fax: (423) 241-5219  
E-mail: stevensw@ornl.gov  
<http://www.ornl.gov/orise.htm>

### **Oak Ridge National Laboratory**

This laboratory conducts basic and applied research and development to meet energy and environmental challenges, including competencies in energy production and uses, envi-

ronmental science and technology, advanced materials, neutron-based science, and high-performance computing.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008  
Building 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov  
<http://www.ornl.gov/>

### **Oak Ridge Operations Office**

This office provides outreach programs to local precollege schools, conducts environmental education activities, and provides information about regional programs.

Greg Mills, Education Coordinator  
Oak Ridge National Laboratory  
DOE Oak Ridge Operations Office  
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PO Box 2008  
Building 4500 North, MS 6269  
Oak Ridge, TN 37831  
(423) 576-0951 / Fax: (423) 574-9275  
E-mail: millsga@ornl.gov  
[http://www.ornl.gov/doe\\_oro/](http://www.ornl.gov/doe_oro/)

### **Pacific Northwest National Laboratory**

This laboratory's core mission is to deliver environmental science and technology in the service of the nation and humanity. Through basic research, the laboratory creates fundamental knowledge of natural, engineered, and social systems that forms the basis for both effective environmental technology and sound public policy. The laboratory also applies its capabilities to meet selected national security, energy, and human health needs; to strengthen the U.S. economy; and to support the education of future scientists and engineers.

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University and Science Education Programs  
Pacific Northwest National Laboratory  
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Richland, WA 99352  
(509) 375-2820 / Fax: (509) 375-2576  
E-mail: jeff.estes@pnl.gov  
<http://www.pnl.gov/>

### **Pantex Plant**

This plant has five primary missions: to fabricate chemical high explosive components for nuclear weapons; to assemble nuclear weapons for the nation's stockpile; to maintain and evaluate those weapons; to disassemble weapons being retired from the stockpile; and to serve as an interim storage site for plutonium components from retired weapons.

Debra Halliday, Educational Outreach Manager  
Pantex Plant, External Affairs, Building 16-12  
PO Box 30020  
Amarillo, TX 79120-0020  
(806) 477-6035 / Fax: (806) 477-5743  
E-mail: dhallida@pantex.com  
<http://www.pantex.com/>

### **Pinellas Plant**

This plant ended its defense program mission in 1994 and is aggressively promoting the plant's technology to support economic development in the private sector. High technology once used for the weapons stockpile and a highly skilled workforce make the plant a unique and valuable asset to the community.

Shirley Cheatham, Manager, Public Affairs  
Pinellas Plant  
Lockheed Martin Specialty Components  
PO Box 2908  
Largo, FL 34649-2908  
(813) 541-8263 / Fax: (813) 541-8778

### **Princeton Plasma Physics Laboratory**

This laboratory conducts research in magnetic fusion.

Diane Carroll, Head, Science Education Program  
Princeton Plasma Physics Laboratory  
Princeton University  
James Forrestal Campus  
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Princeton, NJ 08543-0451  
(609) 243-2107 / Fax: (609) 243-2112  
E-mail: dcarroll@pppl.gov  
<http://www.pppl.gov/>

### **Rocky Flats Plant**

This plant is a key facility in nuclear weapons research, development, and production.

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PO Box 928  
Golden, CO 80402-0928  
(303) 966-2200 / Fax: (303) 966-6633  
E-mail: gene.mccarthy@rfets.gov  
<http://www.rfets.gov/>

### **Sandia National Laboratories, California**

The laboratory applies engineering and scientific capabilities to nuclear weapons technology, energy research, and other areas of national interest. Sandia's science education effort includes multiple projects to strengthen math, science, and technology education and to enhance the science literacy of the public.

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Sandia National Laboratories, California  
7011 East Avenue  
PO Box 969, MS 9904  
Livermore, CA 94551-0969  
(925) 294-3760 / Fax: (925) 294-1526  
E-mail: kpscott@sandia.gov  
<http://www.sandia.gov/>

### **Sandia National Laboratories, New Mexico**

These laboratories apply engineering and scientific capabilities to nuclear weapons technology, energy research, and other areas of national interest.

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Sandia National Laboratories, New Mexico  
PO Box 5800, MS 1351  
Albuquerque, NM 87185-1351  
(505) 844-1280 / Fax: (505) 844-1222  
E-mail: wrdawes@sandia.gov  
<http://www.sandia.gov/>

### **Savannah River Ecology Laboratory (SREL)**

SREL acquires and communicates knowledge of ecological processes and principles.

J Vaun McArthur  
Savannah River Ecology Laboratory  
Environmental Outreach and Education Division  
Program Office, Drawer E  
Aiken, SC 29802  
(803) 725-2472 / Fax: (803) 725-3309  
E-mail: mcarthur@srel.edu  
<http://www.uga.edu/~srel/>

### **Savannah River Site (SRS)**

SRS is a key DOE facility, focusing on national security work, environmental cleanup and waste management, and economic development and technology transfer initiatives. Operated under contract by the Westinghouse Savannah River Company, the complex covers 310 square miles.

Lynn T. Bertsch, Manager  
Education Outreach Programs Department  
Westinghouse Savannah River Company  
Cooperative Research Campus  
227 Gateway Drive  
Aiken, SC 29808  
(803) 652-1813 / Fax: (803) 652-1898  
E-mail: lynn.bertsch@srs.gov  
<http://www.srs.gov/>

### **Stanford Linear Accelerator Center**

This center carries out experimental and theoretical research in high-energy physics and develops new techniques for particle accelera-

tion. Synchrotron radiation is used for research in biomedicine and environmental and materials science.

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Stanford Linear Accelerator Center  
PO Box 4349, Bin-81  
Stanford, CA 94309  
(650) 926-2713 / Fax: (650) 926-4500  
E-mail: quinn@slac.stanford.edu  
<http://www.slac.stanford.edu/>

### **Strategic Petroleum Reserve**

The reserve stockpiles crude oil and supplements oil supplies in the marketplace.

Durinda Robinson, Special Assistant  
Strategic Petroleum Reserve  
900 Commerce Road East  
New Orleans, LA 70123  
(504) 734-4312 / Fax: (504) 734-4672  
E-mail: Durinda.Robinson@spr.doe.gov  
<http://www.spr.doe.gov/>

### **Thomas Jefferson National Accelerator Facility**

This laboratory supports research and education in nuclear physics. Focus is on advancements in accelerator physics, electron beams, detector equipment, data acquisition, and superconducting radiofrequency technology.

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Thomas Jefferson National Accelerator Facility  
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Newport News, VA 23606  
(757) 269-7164 / Fax: (757) 269-5065  
E-mail: tyler@jlab.org  
<http://www.jlab.org/>

### **Western Area Power Administration (WAPA)**

WAPA markets and distributes federal power and capacity to a service area covering 15 of the western states.

Kevin Petts  
Western Area Power Administration-Phoenix  
615 South 43rd Avenue  
Phoenix, AZ 85009  
(602) 352-2770 / Fax: (602) 352-2454  
<http://www.wapa.gov/>

## **National Programs for K-12 Education**

### **Associated Western Universities Precollege Science Education Programs**

The Associated Western Universities, Inc. is a consortium of 65 colleges and universities

that administers a variety of national and regional science education programs, including those at the precollege level.

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4190 South Highland Drive, Suite 211  
Salt Lake City, UT 84124  
(801) 273-8900 / Fax: (801) 277-5632  
E-mail: info@awu.org  
<http://www.awu.org/>

### **ESTEEM Homepage**

DOE has created the Education in Science, Technology, Energy, Engineering, and Math site to introduce the nation's children and teachers to the department. The site consists of all education programs, events, activities, and staff directories for the DOE. Go to <http://www.sandia.gov/ESTEEM/home.html> for more information.

### **Hands-On Universe**

This Lawrence Berkeley Laboratory program makes cutting-edge astrophysics research tools and technologies available to a wide audience. Via microcomputers and electronic networks, participants can request astronomical images created from the laboratory's professional-grade telescopes.

Lawrence Berkeley Laboratory  
One Cyclotron Road  
Center for Science and Engineering Education  
Building 938C  
Berkeley, CA 94720  
(510) 486-5325 / Fax: (510) 486-6660  
<http://hou.lbl.gov/>

### **National Education Supercomputer Program (NESP)**

In these summer workshops, students and teachers use a Cray Y-MP supercomputer dedicated to education.

Brian Lindow, Manager of Educational Technology Programs  
Lawrence Livermore National Laboratory  
PO Box 808  
Livermore, CA 94551  
(925) 422-6080 / Fax: (925) 423-0418  
E-mail: lindowl@llnl.gov  
<http://nebbs.llnl.gov/>

### **Pittsburgh Energy Technology Center Outreach Programs**

These programs provide energy-related materials and training seminars for K-12 teachers and students. The programs also provide scientists for onsite visits and technical presentations.

McMahan L. Gray, Research Chemist  
Federal Energy Technology Center  
PO Box 10940, MS 141-L  
Pittsburgh, PA 15236  
(412) 892-4826 / Fax: (412) 892-4158  
E-mail: [gray@fetc.doe.gov](mailto:gray@fetc.doe.gov)  
<http://www.fetc.doe.gov/>

### **Science Understanding Promotes Environmental Responsibility! (SUPER!)**

SUPER! gives teachers content-specific background and pedagogical strategies to assist them in effectively using environmental issues as the vehicle to grab students' attention in the classroom. Sandia brings together the technical resources of the Sandia National Laboratories, California, and the education and leadership expertise of the Lawrence Hall of Science and the California Department of Education.

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Sandia National Laboratories, California  
7011 East Avenue  
PO Box 969, MS 9904  
Livermore, CA 9455  
(925) 294-1502 / Fax: (925) 294-1526  
E-mail: [Nancy-nwilson@sandia.gov](mailto:Nancy-nwilson@sandia.gov)  
<http://www.ca.sandia.gov/oldwebvision/super.html>

### **Stanford Linear Accelerator Center Summer Internships in Science and Engineering**

This is an eight-week research program for underrepresented groups. Students are undergraduates chosen from a national pool of applicants.

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Stanford Linear Accelerator Center  
PO Box 4349, MS11  
Stanford, CA 94309  
(650) 926-2265  
E-mail: [kmac@slac.stanford.edu](mailto:kmac@slac.stanford.edu)  
<http://www.slac.stanford.edu/gen/edu/education.html>

### **Strategic Issues Thinking: 2020 Vision**

This project introduces high school students and teachers to national security issues through the techniques of scenario building and engages them in an interactive process of

creating scenarios relevant to the DOE. Starting with the world as it is today, teams of students develop a series of scenarios on international developments over the next 25 years under various circumstances. It is an educational process as well as a vehicle through which experience and insight can be gained and shared. Teachers and students gain a better understanding of how the country's role in the world might evolve.

Julie Clausen, 2020 Project Lead  
Sandia National Laboratories, California  
7011 East Avenue  
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E-mail: [jclaus@sandia.gov](mailto:jclaus@sandia.gov)  
<http://www.ca.sandia.gov/oldwebvision/2020.html>

### **Teacher Development Programs at Oak Ridge National Laboratory**

The Oak Ridge National Laboratory provides a number of teacher development programs that use the resources of the laboratory. Programs are designed to meet the needs of teachers while building on the science of the laboratory. For example, programs have been developed in the areas of manufacturing, robotics, building technology, computing, forensics science, etc. Participants work side-by-side with practicing scientists while working with science educators to explore effective mechanisms to transfer their experiences to the classroom. Programs are of varying length, usually provide a stipend, and offer the opportunity for academic credit.

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<http://www.ornl.gov/>



# U.S. Department of Health and Human Services (HHS)

*If this country is to tackle one of the most difficult problems we face today—quality health care for all—it is critical that the public understand the science that underlies health. A scientifically informed citizenry is more likely to value the importance of disease prevention strategies and to act on that understanding. Because science is a life-long learning process, we must nurture it in its earliest stages—at the preschool and elementary school levels—and allow our interest and knowledge in it to broaden throughout our adult lives.*

**Donna E. Shalala, Secretary**

**U.S. Department of Health and Human Services**



## Mission

The U.S. Department of Health and Human Services (HHS) is the federal government's principal agency for promoting the health of Americans, providing essential human services, carrying out clinical and basic biomedical and behavioral research, and providing support for predoctoral and postdoctoral research training in the life sciences. Also, HHS has long been concerned with the depth and quality of the scientific workforce and for this reason has launched a comprehensive life sciences education initiative.

## Background

HHS was created in 1980 from what was formerly the U.S. Department of Health, Education, and Welfare. The work of HHS is implemented by the office of the Secretary and four operating divisions: the Social Security Administration, the Health Care Financing Administration, the Administration for Children and Families, and the Public Health Service (PHS). PHS is the HHS agency with the major mission in science education.

In 1990 the Assistant Secretary for Health established the PHS Life Sciences Education and Science Literacy Board. The board was charged with developing strategies for ensuring an adequate pool of well-trained personnel to meet future national needs in the life sciences and increasing the level of scientific understanding among youth and adults in the United States.

The board's first significant action was to host the Prologue to Action: Life Sciences Education and Science Literacy Conference. The conference brought together experts from across the educational and scientific communities to provide recommendations on the role PHS agencies can play in improving science education. Recommendations made at the conference form the basis for *Meeting the Challenge: Achieving Results*, the PHS strategy on life sciences education and public understanding of science.

## Role in Mathematics and Science Education

While many federal agencies have broad educational missions that include support for science education and training, none focus specifically on biomedical and behavioral science education or literacy. HHS uses its expertise in the life sciences to provide new and expanded initiatives to support the national education efforts.

The bulk of the department's science education programs at the precollege and undergraduate levels are targeted toward bringing students who are traditionally underrepresented in the life sciences into the science education pipeline and supporting them as they move into the health professions, graduate programs, and research careers. Through the PHS, the department is enlarging the public's understanding and appreciation for the life sciences, increasing the exposure of students at all levels to biomedical and behavioral research, and expanding efforts to recruit and retain underrepresented groups.

### Elementary and Secondary

Traditionally, HHS-supported training has focused on graduate and postdoctoral students. However, with the recent decrease in the number of high school and college students majoring in the sciences, the department has begun to dedicate more of its education and training efforts to precollege education. The department views science education as a continuum from preschool to adulthood. Elementary programs such as partnerships with local schools and school systems, and the Summer Internship Program at the high school level, allow HHS to use its greatest resource—its scientists and technical staff—to increase the enthusiasm of both teachers and students for science.

The department offers programs targeted to the important transitional period from junior to senior high. It also operates a long-standing program for minority high school students, the Minority High School Student Research Apprentice Program (MHSSRAP). In addition, HHS provides K-12 teachers with workshops and research opportunities and collaborates with them to increase oppor-

tunities for interaction with scientists, to consult on curriculum improvement projects, and to explore collaborative activities with other public- and private-sector organizations.

### Higher Education

To ensure the availability of well-trained professionals to meet national health research goals, graduate support has been the primary emphasis of HHS education programs. This highly successful effort has nurtured many of the newest disciplines in the life sciences today—biotechnology, human genome research, and the search for the biologic components of mental illness. Integral to the department's mission, graduate training is a stated requirement in section 487 of the Public Health Service Act.

The efforts of HHS to recruit and retain talented undergraduate students in life sciences careers are accomplished primarily through direct financial support—grants, traineeships, and awards—to individuals and institutions. As in its programs for graduate students, the department supports undergraduate students traditionally underrepresented in the life sciences. Long-standing programs such as the Minority Access to Research Careers Honors Undergraduate Research Training Program, the Minority Biomedical Research Support Program, and the Health Careers Opportunity Program demonstrate the department's commitment to this goal.

### Public Understanding of Science

Public understanding of science is an important HHS priority. An informed public is better able to make judgments about the personal and societal implications of science and technology. Literacy in the life sciences improves the public's ability to be more effective health care consumers. Within the department, PHS agencies are examining their programs to determine where science education messages can be more fully integrated into existing disease prevention, health promotion, consumer education, and other public outreach programs. The department is also spearheading an interagency effort to increase the public's understanding of science by chairing the National Science and Technology Council on Education and Training Working Group on Public Understanding of Science.

## How Mathematics and Science Education Programs Are Administered

PHS is the operating division within HHS that is most involved with science education. Agencies within PHS administer their own educational programs, although several PHS-wide efforts are currently underway through the Life Sciences Education and Science Literacy Board. The Office of Science Education Policy at the National Institutes of Health is responsible for policy development and coordination of science and training efforts for PHS and HHS.

## Administrative Offices for Mathematics and Science Education

### Division of Extramural Outreach and Information Resources

In addition to providing general information on grant programs, this division has publications on research and training opportunities.

Division of Extramural Outreach and Information Resources  
Office of Extramural Research  
National Institutes of Health  
6701 Rockledge Drive, Suite 6095  
Bethesda, MD 20892-7910  
(301) 435-0714 / Fax: (301) 480-0525  
E-mail: asknih@odrockml.od.nih.gov  
<http://www.niehs.nih.gov/dert/>

### Office of Science Education (OSE)

OSE serves the National Institutes of Health intramural community, the wider scientific community, and the nation by developing and sponsoring outstanding programs in science education, curriculum development, and biomedical research training. OSE provides leadership in the national effort to increase public understanding and appreciation of science and its role in the development of new therapies and new approaches to health.

Bruce Fuchs, Acting Director  
Office of Science Education  
National Institutes of Health  
6100 Executive Boulevard, Room 5H01  
Bethesda, MD 20892  
(301) 402-5225 / Fax: (301) 402-3034  
E-mail: bruce\_fuchs@nih.gov  
<http://www.niehs.nih.gov/od/k-12/offscied.htm>

## National Programs for K-12 Education

### Minority High School Student Research Apprentice (MHSSRA) Program

MHSSRA has three areas of focus: high school students and inservice and preservice teachers. MHSSRA's six- to eight-week apprenticeship program cultivates interest among minority high school students in the biomedical sciences. Students work with local biomedical investigators to learn research procedures, to collect and analyze data, to help write scientific papers, and to deliver presentations at research seminars.

### MHSSRA Program for Inservice Teachers

This program supports the participation of minority teachers or teachers who teach large numbers of minority students in cutting-edge biomedical research. Teachers work with biomedical investigators who are committed to broadening the teachers' scientific knowledge and understanding of technical skills in the hope that it will transfer into the classroom.

### MHSSRA Program for Preservice Teachers

This program allows minority undergraduate students interested in a science teaching career to participate in biomedical research under the mentorship of local biomedical investigators. The program's intent is to expand teachers' basic scientific knowledge and expose them to research experiences before they enter the classroom.

National Center for Research Resources  
National Institutes of Health  
Biomedical Research Support Program  
1 Rockledge Centre, MSC 7965  
6705 Rockledge Drive  
Bethesda, MD 20892-7965  
(301) 435-0760

### National Cancer Institute Student Research Training Program

The primary objective of this program is to provide training and practical experience to highly motivated high school students who are interested in pursuing biomedical research careers. The training program, which is part of the National Cancer Institute intramural programs, is divided into four areas of cancer research—etiology, prevention and control, treatment, and biology.

National Cancer Institute  
National Institutes of Health  
Equal Employment Office  
Building 31, Room 10A33  
9000 Rockville Pike  
Bethesda, MD 20892  
(301) 496-6266  
<http://www.nci.nih.gov/>

### National Institute of Environmental Health Sciences (NIEHS) Summers of Discovery Environmental Science Education Outreach Program

Summers of Discovery is a program for pre-college science teachers and high school through graduate school students who are interested in pursuing careers in the biological sciences. The program matches participants with volunteer mentors from the intramural program to spend two to three months in the mentor's laboratory working on a research project. Participants are exposed to some of the latest biomedical, molecular, and cellular techniques.

National Institute of Environmental Health Sciences  
National Institutes of Health  
Summers of Discovery  
Attention: Personnel Office  
PO Box 12233/RTP.NC 2NN09  
Research Triangle Park, NC 27709  
(919) 541-4265  
<http://www.niehs.nih.gov/od/k-12/discovery.htm>

### Research Supplements to Promote the Recruitment of Individuals with Disabilities into Biomedical Research Careers

This program is designed to provide research experiences for qualified high school students with disabilities who wish to participate in an ongoing research project during the summer or during the school year.

Office of Grant Inquiries  
Division of Research Grants  
National Institutes of Health  
Suite 3032, NSC 7762  
6701 Rockledge Drive  
Bethesda, MD 20892  
(301) 435-0714  
<http://www.nih.gov/grants/oer.htm>

### Research Supplements for Underrepresented Minority High School Students

This program is designed to provide support for summer research experiences for under-

represented minority students. Any principal investigator holding an active NIH research grant may be eligible to submit a request for an administrative supplement to support a minority high school student.

Office of Grant Inquiries  
Division of Research Grants  
National Institutes of Health  
Suite 3032, NSC 7762  
6701 Rockledge Drive  
Bethesda, MD 20892  
(301) 435-0714  
<http://www.nih.gov/grants/oer.htm>

### **Summer Science Enrichment Program**

Conducted at sites across the country, this program encourages underrepresented minorities and underserved youth to pursue professional careers in science, mathematics, and research. During the six-week sessions, scientists act as teachers and mentors. The program includes classroom and laboratory experiences, as well as weekly field trips and evening seminars.

National Cancer Institute  
National Institutes of Health  
Executive Plaza North, Room 240  
6130 Executive Boulevard  
Rockville, MD 20892  
(301) 496-8680



# U.S. Department of Housing and Urban Development (HUD)



## Mission

The U.S. Department of Housing and Urban Development (HUD) is the principal federal agency responsible for programs concerned with the nation's housing needs, fair housing opportunities, and the development and improvement of the nation's communities.

## Background

The department was established in November 1965. Major offices include Housing, which administers the Federal Housing Administration (FHA) mortgage insurance programs; Community Planning and Development, which funds homeless programs and administers block grant funds to states and cities for urban improvement projects; Public and Indian Housing, which funds the construction and renovation of publicly owned and managed housing through local Public and Indian Housing Authorities; Fair Housing and Equal Opportunity, which enforces anti-discrimination laws and promotes open housing plans; and Policy Development and Research, which formulates new initiatives and evaluates program experience. HUD's programs are administered through a national network of 70 state and local offices.

## Role in Mathematics and Science Education

HUD is not directly involved in programs of mathematics and science education. However, the department strongly supports the National Education Goals as an integral part of its commitment to strengthen families and communities. HUD's programs and activities affecting education focus on the special populations served by the department, particularly low-income families receiving housing assistance, families in public housing, and minorities.

## How Mathematics and Science Education Programs Are Administered

Each office within the department is responsible for administering its own education programs.

### Administrative Offices for Mathematics and Science Education

#### Office of Community Planning and Development

The department has a program of assistance to Historically Black Colleges and Universities that both builds the capabilities of the institution and involves faculty and students in real-world problems of economics, planning, and social issues in nearby communities.

Evette Idora  
Office of Community Planning and Development  
Department of Housing and Urban Development  
451 Seventh Street SW, Room 7218  
Washington, DC 20410  
(202) 708-1590  
<http://www.hud.gov/cpd/hbcu.html>

#### Office of Lead Hazard Control

In December 1991, HUD created an Office of Lead-Based Paint Abatement and Poisoning Prevention to develop guidelines and regulations applicable to HUD and other federally supported housing programs. While this office supports a program of public information about these hazards, the Environmental Protection Agency (EPA) manages the national information clearinghouse.

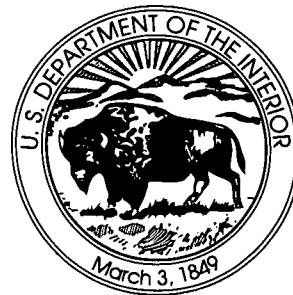
Ronald Morony, Deputy Director  
Office of Lead Hazard Control  
Department of Housing and Urban Development  
451 Seventh Street SW  
Washington, DC 20410  
(202) 755-1739 / Fax: (202) 755-1000  
E-mail: [Ronald\\_J\\_Morony@hud.gov](mailto:Ronald_J_Morony@hud.gov)  
<http://www.hud.gov/lea/leahome.html>

### Office of Public and Indian Housing

HUD's child care assistance program supports the goal of early intervention for children entering school. No programs, however, prescribe the content of the early childhood curriculum. The department strongly supports the concept of drug education and prevention for school-age children as a way to help make public housing communities drug-free. Most department-sponsored drug prevention programs have education components.

Sonia Burgos  
Office of Public and Indian Housing  
Department of Housing and Urban Development  
451 Seventh Street SW, Room 4112  
Washington, DC 20410  
(202) 708-1197, ext. 4227  
Fax: (202) 401-7965  
E-mail: [Sonia\\_L\\_Burgos@hud.gov](mailto:Sonia_L_Burgos@hud.gov)  
<http://www.hud.gov/pih/pih.html>

# U.S. Department of the Interior (DOI)



*Education is the key to unlocking the vast potential of the individual and the means by which society will meet the myriad social, economic, and environmental challenges of the future.*

**Bruce Babbitt, Secretary**  
U.S. Department of the Interior

## Mission

As the nation's principal conservation agency, the U.S. Department of the Interior (DOI) is responsible for managing, preserving, and operating the nation's public lands and natural resources; carrying out related scientific research and investigations; developing and using resources in an environmentally sound manner; providing an equitable return on these resources to the American taxpayer; and carrying out trust responsibilities of the U.S. government with respect to American Indians and Alaska Natives.

With the advent of the conservation movement at the beginning of the 20th century, the department's emphasis shifted to the preservation, management, understanding, and use of the great natural and cultural resources of the land based on an increasing sense of the fragile nature of those resources. Departmental programs and activities now include park and refuge operations of the National Park Service and Fish and Wildlife Service; land management responsibilities of the Bureau of Land Management; delivery by the Bureau of Indian Affairs of quality services to American Indians and Alaska Natives; minerals leasing and revenue collection programs of the Minerals Management Service; research, data collection and scientific activities of the Bureau of Reclamation; regulatory responsibilities and reclamation activities of the Office of Surface Mining, Reclamation, and Enforcement; and support for U.S. territories and other insular areas.

All of these activities support DOI's mission to ensure that the nation's investment in its natural and cultural resources is cultivated in a manner that guarantees the optimum environmental, recreational, cultural, and economic benefits for the American people.

## Background

The Department of the Interior was formed on March 3, 1849. The natural resource stewardship responsibilities of the department are carried out by nine bureaus with more than 60 regional and 1,500 field offices.

## Role in Mathematics and Science Education

DOI's stewardship mission and its extensive scientific and technological expertise present unique opportunities for educational outreach. With more than 440 million acres of land, 467 wildlife refuges, 75 fish hatcheries, and 356 national parks, including battlefields and seashores, DOI provides many opportunities for people to learn about science by observing nature firsthand.

### Elementary and Secondary

About half of the department's precollege efforts directly support students through workshops, informal classes, and student work appointments. DOI offers educational activities at its many field sites, develops curriculum materials, and provides educational opportunities to special populations. In addition, DOI supports mathematics and science instruction at the Bureau of Indian Affairs schools.

### Higher Education

The majority of DOI's undergraduate programs provide student support, mostly in the form of student work appointments. Many of the bureaus enter into partnerships with state and academic institutions to further research and education in natural resource management. In addition, DOI provides support to Historically Black Colleges and Universities, Hispanic-serving institutions, and Tribal Colleges and Universities. Graduate research programs fund basic and applied research and generate Earth science data.

### Public Understanding of Science

Fostering effective stewardship of the nation's public lands and resources is a top department priority. With hundreds of parks, refuges, fish hatcheries, and other field sites, many opportunities exist for visitors to gain an understanding of the natural sciences.

## How Mathematics and Science Education Programs Are Administered

DOI's educational programs are administered by its bureaus. Because the department's edu-

cation outreach is a grassroots effort, information requests can be handled most effectively by the DOI field offices and facilities listed in the State Highlights section of this publication.

## Administrative Offices for Mathematics and Science Education

### Bureau of Indian Affairs (BIA)

The BIA works with tribal governments and Alaskan Native village communities to encourage and support tribal efforts to self-govern and to provide needed programs and services on the reservations. Developing forest lands, leasing mineral rights, directing agricultural programs, and protecting water and land rights are included in this responsibility. The BIA funds 185 elementary and secondary schools in 22 states with more than 51,000 students enrolled in preschool, kindergarten, and grades 1 through 12. Types of schools include day schools, on- and off-reservation residential schools, and peripheral dormitories. The BIA also funds 24 Tribally Controlled Community Colleges and operates two post-secondary institutions. Higher education grants for undergraduate students, graduate student assistance, and adult education funds are made available to members of federally recognized tribes.

Charles G. Geboe, Co-Team Leader  
School Reform/Goals 2000  
Office of Indian Education Programs  
Bureau of Indian Affairs  
U.S. Department of the Interior  
1849 C Street NW, MS 3512, MIB  
Washington, DC 20240  
(202) 208-4040 / Fax: (202) 208-3200  
E-mail: [cgebcoe@enaa.unm.edu](mailto:cgebcoe@enaa.unm.edu)  
<http://www.doi.gov/bureau-indian-affairs.html>

### Bureau of Land Management (BLM)

Operating under the principles of multiple use and sustained yield for the benefit of all Americans, the BLM oversees national public lands. Approximately 264 million acres of public land, located primarily in the West and in Alaska, comprise about one-eighth of the

total land area of the United States. The BLM promotes natural resource and environmental education through a broad range of activities conducted by field offices in 12 western states and in scattered areas throughout the East. State offices can provide information on local district offices that sponsor environmental education programs.

Mary Tisdale, Chief  
Office of Environmental Education and  
Volunteers  
Bureau of Land Management  
1849 C Street NW, LS-406  
Washington, DC 20240  
(202) 452-5078 / Fax: (202) 452-5199  
<http://www.blm.gov/>

### **Bureau of Reclamation**

The mission of the bureau is to manage, develop, and protect water and related resources in an environmentally and economically sound manner. A major interest is safe and dependable water supplies for agricultural, municipal, industrial, and domestic users. The bureau also oversees production of hydroelectric energy at reclamation powerplants. Other mandates are to provide recreational and fish and wildlife benefits for the public, to enhance river regulation and navigation, and to control damaging floods.

Kathie Marsh  
Bureau of Reclamation  
Denver Federal Center  
D-5100, Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 223  
Fax: (303) 236-3930  
E-mail: [kmarsh@do.usbr.gov](mailto:kmarsh@do.usbr.gov)  
<http://www.usbr.gov/main/>

### **Minerals Management Service (MMS)**

The MMS manages the mineral resources of the Outer Continental Shelf in an environmentally sound and safe manner. The bureau is responsible for the timely collection, verification, and distribution of mineral revenues from federal and Indian lands.

The MMS provides a variety of educational services and information to teachers and students. A major topic is the environmentally correct management of offshore natural gas, oil, and other resources, but information is also available on a number of other subjects including geology, environmental and socioeconomic sciences, marine biology, underwater archaeology, and beach restoration. MMS professionals have worked with schools in some states to develop energy resource curricula. Teacher inservice programs and classroom visitations are provided. Materials may

include booklets, brochures, posters, newsletters, and slide presentations as well as statistical and other off-the-shelf technical publications. Some of these materials are available upon request through MMS headquarters and/or regional offices. Availability may be limited, but arrangements can be made for duplication of some materials at cost to the requester.

Lyn Herdt, Chief, Office of Communications  
Minerals Management Service  
1849 C Street NW, LMS 4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968  
E-mail: [lyn.herdt@mms.gov](mailto:lyn.herdt@mms.gov)  
<http://www.mms.gov/>

### **Biological Resources Division of the U.S. Geological Survey (USGS)**

The division works with others to provide the scientific understanding and technologies needed to support the sound management and conservation of our nation's biological resources.

Duncan Morrow  
Biological Resources Division  
USGS  
300 National Center  
Reston, VA 20192  
(703) 648-4060  
E-mail: [duncan\\_morrow@usgs.gov](mailto:duncan_morrow@usgs.gov)  
<http://www.nbs.gov/>

### **National Park Service (NPS)**

The principal responsibility of the NPS is to administer the National Park System. The system is composed of more than 370 areas of great diversity, including parks, monuments, historic sites, battlefields, seashores and lakeshores, and recreational areas.

Robert Huggins, Division of Interpretation  
National Park Service  
Department of the Interior  
1849 C Street NW  
Washington, DC 20240  
(202) 523-1056 / Fax: (202) 523-1061  
E-mail: [bob\\_huggins@nps.gov](mailto:bob_huggins@nps.gov)  
<http://www.nps.gov/>

### **Office of the Secretary (OS)**

OS coordinates all education programs implemented by departmental bureaus and agencies through the DOI Education Committee. OS supports education efforts through several ongoing projects, including an education program inventory, a coordinated education program evaluation effort, and a joint project for submission of products for the Internet.

Sylvia Jones, Education Coordinator  
Office of the Secretary  
1849 C Street NW, MS 2759  
Washington, DC 20240  
(202) 208-3254 / Fax: (202) 208-3620  
E-mail: [sjones@ios.doi.gov](mailto:sjones@ios.doi.gov)  
[http://www.doi.gov/doi\\_edu.html](http://www.doi.gov/doi_edu.html)

### **Office of Surface Mining Reclamation and Enforcement (OSMRE)**

OSMRE has a twofold mission: to protect people and the environment from the adverse effects of coal mining, while recognizing the nation's vital need for energy from coal. To those ends, OSMRE regulates current mining operations and helps repair lands that were mined and left unreclaimed and abandoned.

Sarah Donnelly, Chief, Branch of Training  
Office of Surface Mining  
Department of the Interior  
1951 Constitution Avenue NW, Room 640  
(NC)  
Washington, DC 20240  
(202) 208-2826 / Fax: (202) 219-3111  
<http://www.osmre.gov/osm.htm>

### **U.S. Fish and Wildlife Service (FWS)**

The FWS conserves, protects, and enhances fish and wildlife and their habitats for the continuing benefit of the American people. Migratory birds, endangered species, freshwater and anadromous fisheries, and certain marine animals are primary FWS responsibilities.

Michael Smith, Chief, Division of Education  
National Conservation Training Center  
U.S. Fish and Wildlife Service  
Department of the Interior  
Route 1, Box 166, Shepherd Grade Road  
Shepherdstown, WV 25443  
(304) 876-7495 / Fax: (304) 876-7231  
E-mail: [Michael\\_L\\_Smith@mail.fws.gov](mailto:Michael_L_Smith@mail.fws.gov)  
<http://www.fws.gov/>

### **U.S. Geological Survey (USGS)**

The mission of the USGS is to provide geologic, topographic, and hydrologic information that contributes to wise management of the nation's natural resources and that promotes the health, safety, and well-being of the people. This information consists of maps, databases, and descriptions and analyses of geological entities including water, energy, and mineral resources, land surface, underlying geologic structure, and dynamic processes of the Earth.

Carolyn DiDonato, Lifelong Learning/  
Education Coordinator  
USGS  
119 National Center  
Reston, VA 20192  
(703) 648-4463 / Fax: (703) 648-4466  
E-mail: [cdidonat@usgs.gov](mailto:cdidonat@usgs.gov)  
<http://www.usgs.gov/>

## National Programs for K-12 Education

### Aquatic Resources Education Program

This program is designed to increase public understanding of the nation's water resources and aquatic life and to develop responsible attitudes toward the aquatic environment.

Gary Reinitz, Education Administrator  
U.S. Fish and Wildlife Service  
Division of Federal Aid  
Arlington Square, Room 140  
4401 North Fairfax Drive  
Arlington, VA 22203  
(703) 358-2156 / Fax: (703) 358-1837  
<http://www.fws.gov/>

### Celebrating Wildflowers/ Wildflower Week

This nationwide program focuses on highlighting wildflower education with year-round activities. The program includes interpretation and restoration events on public lands.

Jeff Carroll, Botanist  
5353 Yellowstone Road  
Cheyenne, WY 82009  
(307) 775-6090 / Fax: (307) 775-6082

### Earth Science Information Centers (ESIC)

The ESICs offer nationwide information and sales service for USGS map products and Earth science publications. This network of ESICs provides information about geologic, hydrologic, topographic, and land-use maps; books and reports; aerial, satellite, and radar images and related products; Earth science and map data in digital format and related application software; and geodetic data. ESICs can also provide information on private and public producers of Earth-science-related products throughout the United States. For more information contact any ESIC or call (800) USA-MAPS.

U.S. Geological Survey  
Earth Science Information Center, Reston  
507 National Center  
Reston, VA 22092  
(703) 648-6045 / Fax: (703) 648-5548  
(800) USA-MAPS  
E-mail: [esicmail@usgs.gov](mailto:esicmail@usgs.gov)  
<http://mapping.usgs.gov/esic/index.html>

### Earth Stewards

This six-site nationwide pilot program enlists natural resource professionals to develop and implement an environmental education program with educators, students, and other community members. The program includes interdisciplinary classroom activities and hands-on community conservation projects. Training is provided for both natural resource professionals and educators.

Claire Cassel, Education Specialist  
National Education and Training Center,  
Room 851  
4401 North Fairfax Drive  
Arlington, VA 22203  
(703) 358-2536 / Fax: (703) 358-2283

### EarthFax

To anyone with a touch-tone phone and access to a fax machine, the USGS EarthFax system provides the latest word on earthquake activity around the world, plus information on ordering maps, the status of our water resources, and the latest products, events, and minerals information. To access EarthFax, dial (703) 648-4888. Easy-to-follow instructions guide users through the process of requesting that specific information be faxed to the facsimile machine they specify. Callers can request up to three documents per call. Calls to the EarthFax system do not need to be placed from a fax telephone. Callers can provide the number of a remote fax to which material can be forwarded.

Department of the Interior  
USGS Office of Outreach  
119 National Center  
Reston, VA 22092  
(703) 648-4460 / Fax: (703) 648-4466

### Federal Junior Duck Stamp Conservation and Design Program

This program uses art as a catalyst to interest K-12 students in conservation. Focusing on migratory birds and other wildlife that depend on wetland habitats, the curriculum-based program crosses cultural, ethnic, social, and geographic boundaries. Since this kind of art activity requires an understanding of wildlife anatomy and environmental science, it can be a valid barometer of a student's grasp of these scientific elements. Students enter their drawings of North American ducks, swans, or

geese in their state contest. Student winners from each state win a free trip to Washington, DC, to compete in the Federal Duck Stamp Contest. First place receives a \$2,500 scholarship, and the design is used to create the Junior Duck Stamp.

Margaret Wendy, Program Director  
Federal Junior Duck Stamp Conservation Program  
Department of the Interior  
1849 C Street NW, Room 2058  
Washington, DC 20240  
(202) 208-4354  
<http://www.fws.gov/r9dso/>

### Heritage Education Program

This Bureau of Land Management program promotes awareness of the need to preserve and protect our cultural resources. BLM provides teachers with Project Archaeology classroom materials. Teaching resources focus on archaeology and history for schools, outdoor classrooms, museums, and other informal learning environments. Ideas for classroom activities are provided in the publication *Intrigue of the Past: A Teacher's Activity Guide for Fourth through Seventh Grades* and in state-specific student handbooks, which are now available for Alaska, Arizona, Oregon, New Mexico, and Wyoming. Partners have created handbooks in North Carolina and Pennsylvania.

Cindy Ramsay, Project Director  
Bureau of Land Management  
Anasazi Heritage Center  
PO Box 758  
Dolores, CO 81323  
(970) 882-4811, ext. 120  
Fax: (970) 882-7595  
<http://www.co.blm.gov/ahc/hmepge.htm>

### National Fishing Week

This national program is promoted in Wyoming through various Fishing Days and other educational activities that seek to capture the interest of the public in fishing activities. Hands-on activities such as casting and fishing techniques are offered, and participants learn about the types of fish and places to fish, especially on public land.

Mark Gorges, Fisheries Biologist  
5353 Yellowstone Road  
Cheyenne, WY 82009  
(307) 775-6100 / Fax: (307) 775-6082

### Parks as Classrooms

This program offers teachers an opportunity to use the national parks to augment classroom instruction. In most locations, emphasis is on ecological and biological principles, but a few locations focus on geological, meteorological,



logical, and oceanographic principles. The National Park Service offers workshops in the parks to encourage teachers to build their curricula around park resources.

Robert Huggins, National Program Director  
Parks as Classrooms Program  
National Park Service  
1849 C Street NW  
Washington, DC 20240  
(202) 565-1050 / (202) 565-1061  
E-mail: bob\_huggins@nps.gov  
<http://www.nps.gov/interp/parkclass.html>

### **Project Water Education for Teachers (WET)**

Project WET develops diverse and innovative approaches to a balanced water education program that appeals to a wide spectrum of educators and students. The project produces a variety of educational publications, models, and programs that respond to the varied learning styles of young people. Highlights include natural and social sciences, mathematics, and the arts. States currently involved in Project WET are listed in the State Highlights section of this publication.

Dennis Nelson, Director  
National Project WET  
201 Culbertson Hall  
Montana State University  
Bozeman, MT 59717  
(406) 994-5392  
<http://www.montana.edu/wwwwet/>

### **Project WILD**

This project provides training and curriculum materials for teachers interested in the environmental sciences. Printed guides contain more than 80 supplementary, interdisciplinary activities for grades K-12. Guides are free to teachers attending the training session. The Project WILD coordinator in each state can provide additional information.

Donna Asbury, Director  
Project WILD  
5430 Grosvenor Lane  
Bethesda, MD 20814  
(301) 493-5447 / Fax: (301) 493-5627  
<http://eelink.umich.edu/wild/index.html>

### **Resource Apprenticeship Program for Students**

Selected high school students learn about the management of natural and cultural resources on the nation's public lands through first-hand work experience. Students work directly with scientists and other professionals. The program operates in the western United States.

Robert Jones  
Bureau of Land Management  
222 West 7th Avenue, #13  
Anchorage, AK 99513-7599  
(907) 271-4464 / Fax: (907) 272-0690

### **Science Education Training Project Workshops**

Sinte Gleska University, in cooperation with the South Dakota School of Mines and Technology, has hosted this project since 1991. Two workshops are offered exclusively for teachers of American Indian students in grades K-8. The primary goal is to provide these elementary teachers with content, methods, activities, evaluative strategies, and curriculum development skills necessary for the implementation of culturally based, hands-on science and math activities in their classrooms. This is an empowerment process that includes the development of confidence, as well as knowledge and skills.

Leland Bordeaux, Director  
Sinte Gleska University  
PO Box 8  
Mission, SD 57555  
(605) 856-2886 / Fax: (605) 856-2011  
E-mail: bordeaux@rosebud.sinte.edu  
<http://sinte.indian.com/index.html>

### **Southwestern Indian Polytechnic Institute (SIPI) College Bound Math and Science Enrichment Program**

During the school year, students involved in this program work on assigned projects with coordinators at their high schools. The projects are used to keep the students working toward their education goals and to strengthen the students' computer networking skills. Since 1991, a one-week workshop at the NERSC Supercomputer facilities in Livermore, California, has been included in the program. This workshop introduces students to the Cray Supercomputer and the skills required to use it. The workshops are conducted by staff from both the Sandia and Lawrence Livermore National Laboratories.

Joe Skenandore, College Bound Coordinator  
Southwestern Indian Polytechnic Institute  
SIPI College Bound Math and Science  
Enrichment Program  
PO Box 10146  
Albuquerque, NM 87184  
(505) 897-5347  
<http://www.sipi.bia.edu/>

### **Suitcase for Survival**

This education campaign acquaints young people with protected wildlife and how illegal

trade in these species threatens them with extinction. The program is a cooperative effort of the U.S. Fish and Wildlife Service, the American Zoo and Aquarium Association, the World Wildlife Fund, and the National Fish and Wildlife Foundation. Operated nationally through zoological parks, the program sponsors training classes for teachers to enable them to use program suitcases, donated by American Tourister, that are filled with confiscated wildlife products and educational materials. The recommended curriculum helps children understand the connection between living animals and the products in the suitcases.

Bruce Carr, Director of Education  
American Zoo and Aquarium Association  
Parks and Aquariums  
7970-D Old Georgetown Road  
Bethesda, MD 20814  
(301) 907-7777

### **Youth Conservation Corps**

This summer employment program is offered by both the U.S. Department of Agriculture and DOI. Students, ages 15-18, work on projects to further the development and conservation of U.S. natural resources. Work projects are planned to give enrollees an understanding of their tasks and how their work enhances the environment.

Youth Conservation Corps Coordinator  
U.S. Department of the Interior  
National Park Service  
1849 C Street NW, Room 7325  
Washington, DC 20240  
(202) 565-1085  
<http://www.nps.gov/htdocs1/ccso/ycc.htm>



# U.S. Department of Justice (DOJ)

*We must work to free our teachers of the social burdens in our schools, such as drugs and violence, so that they may rise to the educational challenge of teaching our children the skills that will meet our nation's growing scientific and technological needs. Only by making this investment in our children now will they be prepared to maintain America as a first-rate nation.*

**Janet Reno, U.S. Attorney General**  
**U.S. Department of Justice**



## Mission

The U.S. Department of Justice (DOJ) provides legal advice to the President, represents the Executive Branch in federal courts, investigates federal crimes, enforces federal laws, operates federal prisons, and provides law enforcement assistance to states and local communities.

## Background

The Office of the Attorney General was established in 1789, and the Department of Justice was subsequently established in 1870. Professionals of the highest caliber comprise the department's many litigating divisions, law enforcement offices, and management and coordination offices.

## Role in Mathematics and Science Education

Compared with the federal science mission agencies, DOJ does not have a significant focus on mathematics- and science-related occupations. However, the department conducts numerous programs that support national educational goals, including improving student performance in mathematics and science. In addition, mathematics and science play an important role in certain aspects of the department's mission, particularly the laboratory operations of the Federal Bureau of Investigation and the Drug Enforcement Administration. Opportunities for the active participation of students in the scientific endeavors of the department are necessarily limited by the confidential nature of investigations into illegal activity and the need for security clearance.

## Elementary and Secondary

Most programs offered by DOJ are part of delinquency prevention or volunteer educational outreach, and are not directly related to mathematics or science education.

## Higher Education

DOJ activities have an indirect impact in the areas of education programs in mathematics and science. The department awards research grants and sponsors graduate research fellowships and summer intern programs.

## How Mathematics and Science Education Programs Are Administered

While DOJ is not a leader among federal agencies in the field of mathematics and science education, the National Institute of Justice, the Federal Bureau of Investigation, and the Drug Enforcement Administration sponsor programs related to the department's research efforts.

## Administrative Offices for Mathematics and Science Education

### Drug Enforcement Administration (DEA)

This office supports drug investigations through the eight forensic laboratories located throughout the nation. Chemists in these facilities participate in various educational activities.

Benjamin A. Perillo, Acting Deputy Assistant Administrator  
Office of Forensic Sciences  
Drug Enforcement Administration  
Washington, DC 20537  
(202) 307-8866 / Fax: (202) 307-8851  
<http://www.usdoj.gov/dea/>

### Federal Bureau of Investigation (FBI)

The FBI provides training and research to law enforcement through the Forensic Science Research and Training Center. Research at the center focuses on the development of new methods in forensic science. The center operates a summer student intern program for upper-level college students.

Donald W. Thompson, Jr., Acting Assistant Director

Laboratory Division  
Federal Bureau of Investigation  
FBI Building, Room 3090  
9th Street and Pennsylvania Avenue NW  
Washington, DC 20535  
(202) 324-4412 / Fax: (202) 324-1093  
<http://www.fbi.gov/>

### National Institute of Justice, Office of Justice Programs

Created in 1968 as DOJ's principal research branch, the institute awards competitive grants to researchers to conduct studies on the criminal justice system and on the prevention and control of crime and criminal behavior. Grants are also awarded to improve scientific approaches to the forensic investigation of crime as well as to the development and adaptation of law enforcement technologies. The institute disseminates its research findings to the field through a variety of conferences and publications. It also sponsors graduate research fellowships to support work in the field of criminal justice.

Jane Wiseman  
National Institute of Justice  
633 Indiana Avenue NW, Room 846  
Washington, DC 20531  
(202) 616-3233 / Fax: (202) 307-6394  
<http://www.ojp.usdoj.gov/nij/>

# U.S. Department of Labor (DOL)

*Knowledge and skills the market demands. Our challenge is to provide every man and woman, student and worker, with the opportunity to acquire the academic and technical skills they need to achieve the economic security we all want.*

**Timothy M. Barnicle**  
Assistant Secretary of Labor for Employment and Training  
U.S. Department of Labor



## Mission

The basic concern of the U.S. Department of Labor (DOL) is quality of life for American workers. The department enforces laws that protect jobs, pension rights, and worker safety and health; helps people find jobs; sponsors training for those who need it; guides the nation's unemployment insurance system; monitors changes in employment and prices; and provides services and information to workers, employers, teachers, students, business people, government officials, and others.

## Background

The department was created as a Cabinet-level agency by Congress in 1913 "to foster, promote, and develop the welfare of the wage earners of the United States, to improve their working conditions, and to advance their opportunities for profitable employment." Predecessor agencies had existed since 1884, but this legislation marked the first time that a Cabinet department was created with the primary function of furthering the interests of working people.

## Role in Mathematics and Science Education

For most agencies and offices within DOL, the major training activity is directed toward federal staff, and in some cases, state and local staff, to help them carry out their responsibilities. The department's Employment and Training Administration (ETA) also is involved in broad basic mathematics and science education and vocational training for unskilled and unemployed workers. Training activities focus on vocational technical training skills and basic literacy education, including mathematics and general equivalency diploma (GED) preparation, which is generally provided outside the traditional education system. Among other activities, ETA funds training programs to enable workers to gain the skills they need for employment, primarily those authorized by the Job Training Partnership Act (JTPA),

which includes a system of decentralized state and local programs, funded through grants to the states, and the Job Corps.

## How Mathematics and Science Education Programs Are Administered

DOL's mathematics and science education programs are administered by the department's Employment and Training Administration and operated at the state or community levels.

## Administrative Offices for Mathematics and Science Education

### Employment and Training Administration, Office of Job Training Programs

This office administers eight programs for economically disadvantaged youth and adults.

Theodore Mastroianni, Associate Assistant Secretary  
Office of Job Training Programs  
Employment and Training Administration  
U.S. Department of Labor  
200 Constitution Avenue NW, Room N4459  
Washington, DC 20210  
(202) 219-6236 / Fax: (202) 208-5913  
<http://www.doleta.gov/>

The listings below provide descriptions and contact information for three offices of the Employment and Training Administration that administer programs for different populations:

### Office of Employment and Training Programs

This office provides programs for disadvantaged adults, the Summer Youth Employment and Training Programs, and Year-Round Youth Programs.

Ron Putz, Acting Director  
Office of Employment and Training Programs  
Employment and Training Administration  
U.S. Department of Labor  
200 Constitution Avenue NW, Room N4459  
Washington, DC 20210  
(202) 219-5580 / Fax: (202) 219-7190

### Office of Special Targeted Programs

This office directs the Indian and Native American Programs, Older Worker Programs, Persons with Disabilities Program, and Migrant and Seasonal Farmworker Programs.

Anna Goddard, Director  
Office of Special Targeted Programs  
Employment and Training Administration  
U.S. Department of Labor  
200 Constitution Avenue NW, Room N4459  
Washington, DC 20210  
(202) 219-5500 / Fax: (202) 219-6338

### Office of Worker Retraining and Adjustment Programs

This office administers programs for dislocated workers.

Shirley Smith, Program Manager  
Office of Worker Retraining and Adjustment Program  
Employment and Training Administration  
U.S. Department of Labor  
200 Constitution Avenue NW, Room N5426  
Washington, DC 20210  
(202) 219-5339 / Fax: (202) 219-5938

## National Programs for K-12 Education

### Job Corps

Established in 1964, this voluntary residential training and employment program addresses the multiple barriers to employment faced by disadvantaged youth throughout the United States. By providing individually-paced vocational, educational, and social skills training, Job Corps helps these at-risk young adults,

ages 16–24, to become more responsible, employable, and productive citizens. In addition to occupational training, Job Corps provides eligible students with room and board, health care, a small cash living allowance, job placement assistance, and other support services. It is the residential component that distinguishes Job Corps from other employment and training programs. Participants receive a comprehensive array of services in one setting, 24 hours a day, seven days a week. Each year, services are provided to 68,000 students at more than 110 Job Corps centers nationwide, including the District of Columbia and Puerto Rico. The individually paced basic education program includes reading, mathematics, GED, and precollege preparation.

John Chowning, Unit Chief  
Education and Student Support  
Office of Job Corps  
Employment and Training Administration  
U.S. Department of Labor  
200 Constitution Avenue NW, Room N4507  
Washington, DC 20210  
(202) 219-5559 / Fax: (202) 219-5183  
E-mail: [jchowning@doleta.gov](mailto:jchowning@doleta.gov)  
<http://www.jobcorps.org/>

**Job Training Partnership Act  
(JTPA) State and Local Programs  
for Economically Disadvantaged  
Adults and Youth**

State and local JTPA programs, available in virtually every part of the country, prepare economically disadvantaged adults and youth to compete in the labor market. Depending on an individual participant's needs, a broad array of services are available through these programs, including vocational training, basic mathematics, and GED instruction. Activities include a special Summer Jobs Program for low-income youth. The summer program has an education component.

Theodore W. Mastroianni, Associate Assistant  
Secretary  
Office of Employment and Training  
Programs  
Employment and Training Administration  
U.S. Department of Labor  
200 Constitution Avenue NW, Room N4469  
Washington, DC 20210  
(202) 219-6236 / Fax: (202) 208-5913  
<http://www.doleta.gov/>

# U.S. Department of Transportation (DOT)

*Sound technological investments can promote long-term economic growth that creates jobs and protects the environment; can help make government more efficient; and can provide the basis for national leadership in application of new technology to economic growth.*

**Rodney Slater, Secretary**  
U.S. Department of Transportation



## Mission

The U.S. Department of Transportation (DOT) shapes national transportation policy to tie America together with a safe, technologically advanced, and efficient transportation system. This system will promote economic growth and international competitiveness now and in the future, and will contribute to a healthy and secure environment for us and our children.

## Background

Since 1967 the department has helped keep the nation's transportation system operating. DOT functions through 10 administrations, each of which oversees a different aspect of transportation, implements its own programs, and reports to the Secretary of Transportation.

## Role in Mathematics and Science Education

Mathematics and science education is a critical support activity to ongoing DOT programs. Education conveys new technical skills to professionals already in the transportation community. It also develops a pool of trained technical talent to move into jobs in the transportation sector.

### Elementary and Secondary

The Federal Aviation Administration (FAA) offers aviation education programs for educators at all levels (kindergarten through college) that stimulate student interest in mathematics and science. FAA-sponsored programs for students include Air Bear for elementary students, the International Aviation Art Contest, and the Aviation Career Education (ACE) Academy summer program for high school students, which focuses on the science of flight and the study of science and careers. In addition, the Volpe National Transportation Systems Center, sponsored by the Research and Special Programs Administration, encourages awareness of transportation careers.

## Higher Education

Institutions of higher education can receive DOT assistance, including funding to support curricula and grants for research related to transportation. The department sponsors cooperative education programs, research fellowships, and scholarships. In addition, most DOT operating administrations have technical laboratories with advanced technology materials and are required to engage in research application and technology transfer activities. DOT is committed to increasing the involvement of Historically Black Colleges and Universities and Hispanic-serving institutions in funded programs.

## How Mathematics and Science Education Programs Are Administered

Each operating administration within DOT is responsible for its own education programs.

## Administrative Offices for Mathematics and Science Education

### Aviation and Transportation Education Programs

DOT, along with the FAA, has designated more than 100 education resource centers across the country. Located at museums, science centers, state transportation and education departments, and schools and colleges with interest in aviation and transportation education, the centers conduct teacher workshops and youth programs and provide assistance to educators and the public. DOT/FAA has also established partnerships with industry and education organizations.

Phillip S. Woodruff  
Aviation Education Program  
U.S. Department of Transportation  
FAA Headquarters, AHR-15, Suite 515  
800 Independence Avenue SW  
Washington, DC 20591  
(202) 267-3788 / Fax: (202) 267-9508  
<http://www.faa.gov/education/index.html>

## National Highway Institute (NHI)

The NHI administers the Dwight David Eisenhower Transportation Fellowship Program, which includes the Eisenhower Graduate Fellowships, the Eisenhower Grants for Research Fellowships, the Eisenhower Historically Black Colleges and Universities Fellowships, the Eisenhower Hispanic-Serving Institutions Fellowships, the Eisenhower Faculty Fellowships, and the Tribal Initiatives Fellowships. The NHI also administers the College Curriculum Program, in which materials developed for short courses are tested by practitioners for effectiveness and shared with colleges and universities.

Ilene D. Payne, Director  
Universities and Grants Program  
National Highway Institute  
901 North Stuart Street, Suite 300  
Arlington, VA 22203  
(703) 235-0538  
<http://www.nhi.fhwa.dot.gov/>

## Office of Research Policy and Technology Transfer, Research, and Special Programs Administration (RSPA)

RSPA research and technology programs ensure that DOT's research and development program is effectively advancing U.S. transportation technology and expertise. Using a multimodal systems approach, the RSPA provides the Secretary with a critical counterbalance to the focus on the needs of individual modes of transportation in the other DOT operating administrations. The research and technology programs also provide analyses of specific technology areas and ensure that the department's efforts integrate with government-wide technology initiatives and priorities. These activities are particularly important in science and technology education. The programs also help ensure that results of DOT research and other innovative efforts from across the country are made available to federal, state, and local officials, the transportation community, and academia.

Elaine E. Joost, Deputy Director  
Office of Research Policy and Technology  
Transfer (DRT-2)  
Research and Special Programs  
Administration  
400 Seventh Street SW  
Washington, DC 20590  
(202) 366-4208 / Fax: (202) 366-3272  
E-mail: Jooste@rspa.dot.gov  
<http://www.rspa.dot.gov/dva/>

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## **National Programs for K-12 Education**

### **International Science Fair**

The annual International Science Fair, administered by Science Service, Inc., is the world's largest science fair. The FAA supports this program by providing qualified judges and awards in the Special Awards Program, which is sponsored by scientific and engineering societies, federal agencies, colleges and universities, and private industry.

Aviation Education Representative  
Atlantic City International Airport  
Human Resource Management Division  
Atlantic City, NJ 32137  
(609) 485-6032 / Fax: (609) 485-4391

### **Transportation and Aviation Education Conferences**

DOT sponsors an annual National Transportation Education Conference that brings all DOT agencies together with the transportation industry and education communities. In addition, DOT/FAA, the Aviation, Space & Transportation Education Association (ASTEA), and the Magnet Schools of America (MSA) cosponsor the Annual Aviation and Transportation Magnet School Conference.

Phillip S. Woodruff  
Aviation Education Program  
U.S. Department of Transportation  
FAA Headquarters, AHR-15, Suite 515  
800 Independence Avenue SW  
Washington, DC 20591  
(202) 267-3788 / Fax: (202) 267-9508



# U.S. Department of Veterans Affairs (VA)

*The basics of education are not enough anymore; in order to be competitive in the future, Americans will need a foundation of quality education, and they will need to continue learning throughout their lifetime. I believe, as the President does, that our educational system can achieve international excellence if we establish clear standards and support realistic student loan programs. The VA will continue to be a major contributor in this area through GI Bill benefits and our involvement in health care education.*

**Jesse Brown, Secretary**

**U.S. Department of Veterans Affairs**



## Mission

The mission of the U.S. Department of Veterans Affairs (VA) is to serve America's veterans and their families with dignity and compassion and to be their principal advocate in ensuring that they receive the care, support, and recognition they have earned in service to this nation.

## Background

The Department of Veterans Affairs, formerly the Veterans Administration, was elevated to Cabinet level in 1989. The department has three main components that administer veterans' programs: the Veterans Health Administration, the Veterans Benefits Administration, and the National Cemetery System.

## Role in Mathematics and Science Education

The vast VA workforce represents diverse science- and technology-related professions, including physicians, nurses, statisticians, architects, and computer specialists. As part of its mission to provide health care to eligible veterans, the VA provides training and education for health professionals and conducts medical, health, and rehabilitation research. The department supports graduate-level education through more than 40 education programs for the health professions. The department also administers education benefits to eligible veterans, service persons, and dependents.

## How Mathematics and Science Education Programs Are Administered

Two VA administrative offices are involved in education activities: the Veterans Health Administration and the Veterans Benefits Administration.

### Administrative Offices for Mathematics and Science Education

#### Veterans Benefits Administration, Education Service

This service administers several basic educational programs for veterans, service persons, and eligible dependents. Some younger users of the Dependents Education Assistance program may be involved in math and science programs. Assistance is in the form of monthly payments, for a period of up to 45 months, to be used for tuition, books, and subsistence. Young people between the ages of 18 and 26 are eligible if they are children of veterans or servicepersons in several categories: living veterans whose service-connected disabilities are considered permanently and totally disabling, veterans who died of any cause while such service-connected disabilities were in existence, veterans who died of a service-connected disability, or servicepersons who have been listed for a total of more than 90 days as currently missing in action or as currently prisoners of war.

Application is made by filing a VA Form 22-5490, which can be obtained from any VA Regional Office.

Celia P. Dollarhide, Director  
Education Service (22)  
810 Vermont Avenue NW  
Washington, DC 20420  
(202) 273-7132 / Fax: (202) 275-2636  
<http://www.va.gov/education/>

#### Veterans Health Administration, Office of Academic Affairs

This office conducts the nation's largest coordinated education and training effort for the health professions. There are no K-12 programs.

Elizabeth M. Short, M.D., Chief  
Academic Affiliations  
Department of Veterans Affairs  
Office of Academic Affiliations (14)  
810 Vermont Avenue NW  
Washington, DC 20420  
(202) 565-7091  
<http://www.va.gov/>

# U.S. Environmental Protection Agency (EPA)

*Environmental education is an important new initiative at EPA. However, widespread improvements in environmental literacy require a unified commitment from government, business, environmental organizations, and educators alike to increase the quality of our environmental education initiatives.*

**Carol M. Browner, Administrator**  
U.S. Environmental Protection Agency



## Mission

The U.S. Environmental Protection Agency (EPA) is responsible for implementing the federal laws designed to protect the public from environmental hazards, enhance the quality of our natural environment, and expand our knowledge of the environment. The agency endeavors to accomplish its mission systematically by proper integration of a variety of research, monitoring, standard-setting, enforcement, and educational activities. As a complement to its other activities, EPA coordinates and supports research and anti-pollution activities of state and local governments, private and public groups, individuals, and educational institutions. EPA also monitors the operations of other federal agencies with respect to their impact on the environment.

## Background

The EPA was created through Reorganization Plan #3 of 1970, which was devised to consolidate the federal government's environmental regulatory activities into a single agency. The plan was sent by President Nixon to Congress on July 9, 1970, and the agency began operation on December 2, 1970.

The enactment of major new environmental laws and important amendments to older laws in the 1970s and 1980s greatly expanded EPA's responsibilities. The agency now administers 10 comprehensive environmental protection laws: the Clean Air Act; the Clean Water Act; the Safe Drinking Water Act; the Comprehensive Environmental Response, Compensation, and Liability Act; the Federal Insecticide, Fungicide, and Rodenticide Act; the Toxic Substances Control Act; the Marine Protection, Research, and Sanctuaries Act; the Uranium Mill Tailings Radiation Control Act; and the Pollution Prevention Act. In addition, the National Environmental Education Act of 1990 gave EPA, for the first time, the authority to develop a national environmental education program.

## Role in Mathematics and Science Education

As political leaders and the public continue to recognize the urgency and global nature of environmental challenges, EPA will be required to respond with high-quality research, innovative analysis, and sound strategies for public involvement. Currently, more than one-third of the agency's employees are scientists and engineers, and the demands for highly educated and talented staff will only increase as the scientific complexity of environmental problems increases.

Clearly, the agency has a vested interest in ensuring that the nation's education system produces students literate in mathematics and science, and that the nation produces an adequate supply of world-class scientists and engineers. In addition, the agency believes an environmentally educated public is the best way to bring about voluntary changes in personal behaviors that affect the environment.

### Elementary and Secondary

As a result of the passage of the National Environmental Education Act of 1990, the agency focuses on two broad areas of environmental education: improving basic science literacy as the core of environmental education for students in grades K-12 (and in college), and informing the general public about environmental consequences of their individual and collective actions and motivating them to address environmental problems.

### Higher Education

EPA offers predoctoral fellowships and traineeships and postdoctoral fellowships. Undergraduate programs provide opportunities for research, work study, and other forms of assistance to students.

## How Mathematics and Science Education Programs Are Administered

The agency's headquarters in Washington, DC, maintains overall planning, coordination, and control of EPA programs, and two offices at headquarters have responsibilities related to education programs. To ensure that EPA is truly responsive to the American people, the agency has established 10 regional offices, and each of these offices has an environmental education coordinator. In addition, EPA maintains field offices in the following categories: laboratories, investigations, and administration.

## Administrative Offices for Mathematics and Science Education

### Environmental Education Division

The mission of this division is to advance and support national and international environmental education efforts, to develop an environmentally conscious and responsible public, and to inspire in all individuals a sense of personal responsibility for the care of the environment.

Michael Baker, Acting Director  
Environmental Education Division  
U.S. Environmental Protection Agency  
401 M Street SW (1707)  
Washington, DC 20460  
(202) 260-4965 / Fax: (202) 260-4095  
E-mail: [baker.michael@epa.mail.gov](mailto:baker.michael@epa.mail.gov)  
<http://eelink.umich.edu/epa.html>

### Office of Research and Development (ORD)

This office coordinates education programs related to research efforts. Each ORD facility and office plans and administers a range of programs, precollege through graduate, which vary according to laboratory specialization and community needs.

Betty Overton or Ron Slotkin  
Office of Research and Development  
U.S. Environmental Protection Agency  
401 M Street SW (H-8105)  
Washington, DC 20460  
(202) 260-1557 / Fax: (202) 260-0929  
<http://www.epa.gov/ORD/>

## National Programs for K-12 Education

### Environmental Education and Training Program

In September 1995, EPA entered into a three-year cooperative agreement with a consortium of nonprofit organizations and academic institutions led by the North American Association for Environmental Education (NAAEE) to operate the second three-year phase of a nationwide environmental education and training program. This program is authorized under Section 5 of the National Environmental Education Act of 1990. Its purpose is to train education professionals to develop and deliver quality environmental education programs. The second phase will focus on supporting and expanding existing training efforts; identifying, evaluating, and disseminating information on model education materials, teaching methods, and programs; and strengthening and expanding partnerships and networks. This effort builds upon the work initiated by the National Consortium for Environmental Education and Training (NCEET) led by the University of Michigan, which operated the program from 1992 to 1995.

Kathleen MacKinnon, Project Officer  
EPA Environmental Education Division  
401 M Street SW (1707)  
Washington, DC 20460  
(202) 260-4951 / Fax: (202) 260-4095  
E-mail: [mackinnon.kathleen@epamail.epa.gov](mailto:mackinnon.kathleen@epamail.epa.gov)  
<http://www.eetap.org/>

Augusto Medina, Project Manager  
NAAEE  
1255 23rd Street NW, Suite 400  
Washington, DC 20037  
(202) 884-8788 / Fax: (202) 884-8701  
E-mail: [gmedina@web.apc.org](mailto:gmedina@web.apc.org)  
<http://naaee.org/>

### Environmental Education Grants Program

The purpose of this program is to stimulate environmental education by supporting projects to design, demonstrate, or disseminate new techniques related to environmental education. Projects must demonstrate the potential for wide application and address a high-priori-

ty environmental issue. Only state and local agencies and nonprofit organizations or institutions are eligible to apply for grants; however, teachers may participate in the program through their school or another organization. Grants of less than \$25,000 are awarded by the regional offices and inquiries should be directed to the appropriate region. Grants of \$25,000 to \$250,000 are awarded from the Washington Office.

Diane Berger, Grants Specialist  
Environmental Education Grants Program  
Environmental Education Division  
U.S. Environmental Protection Agency  
401 M Street SW (1707)  
Washington, DC 20460  
(202) 260-8619 / Fax: (202) 260-4095  
E-mail: [berger.diane@epa.gov](mailto:berger.diane@epa.gov)  
<http://aspe.os.dhhs.gov/cfda/p66951.htm>

### Headquarters Information Resources Center (IRC)

Through the IRC collection and its access to EPA's major information systems, users can find agency publications, receive answers to questions from a team of information providers, and receive direction toward experts at EPA and other governmental hotlines and clearinghouses. Visitors are welcome to use materials in the IRC, including print, microfilm, and CD-ROM sources. The IRC participates in interlibrary loan (ILL) with other libraries nationwide. Please contact your local library for assistance.

EPA Headquarters  
Information Resources Center  
Room M2904  
401 M Street SW (3404)  
Washington, DC 20460  
(202) 260-5922 / Fax: (202) 260-6257  
E-mail: [library-hq@epamail.epa.gov](mailto:library-hq@epamail.epa.gov)  
<http://www.epa.gov/natlibra/hqirc/index.html>

### Project Air Information Resources for Education (A.I.R.E.)

In cooperation with the American Lung Association, EPA Air and Radiation employees are working with schools nationally to promote awareness of air quality issues and science. Program volunteers visit classrooms and conduct demonstrations, talks, and interactive sessions about air pollution and the decision-making involved in developing EPA policy from science. A textbook is available.

Linda Zarro, Coordinator  
Office of Air and Radiation  
U.S. Environmental Protection Agency  
401 M Street SW (6102)  
Washington, DC 20460  
(202) 260-6621  
<http://www.epa.gov/oar/oarhome.html>

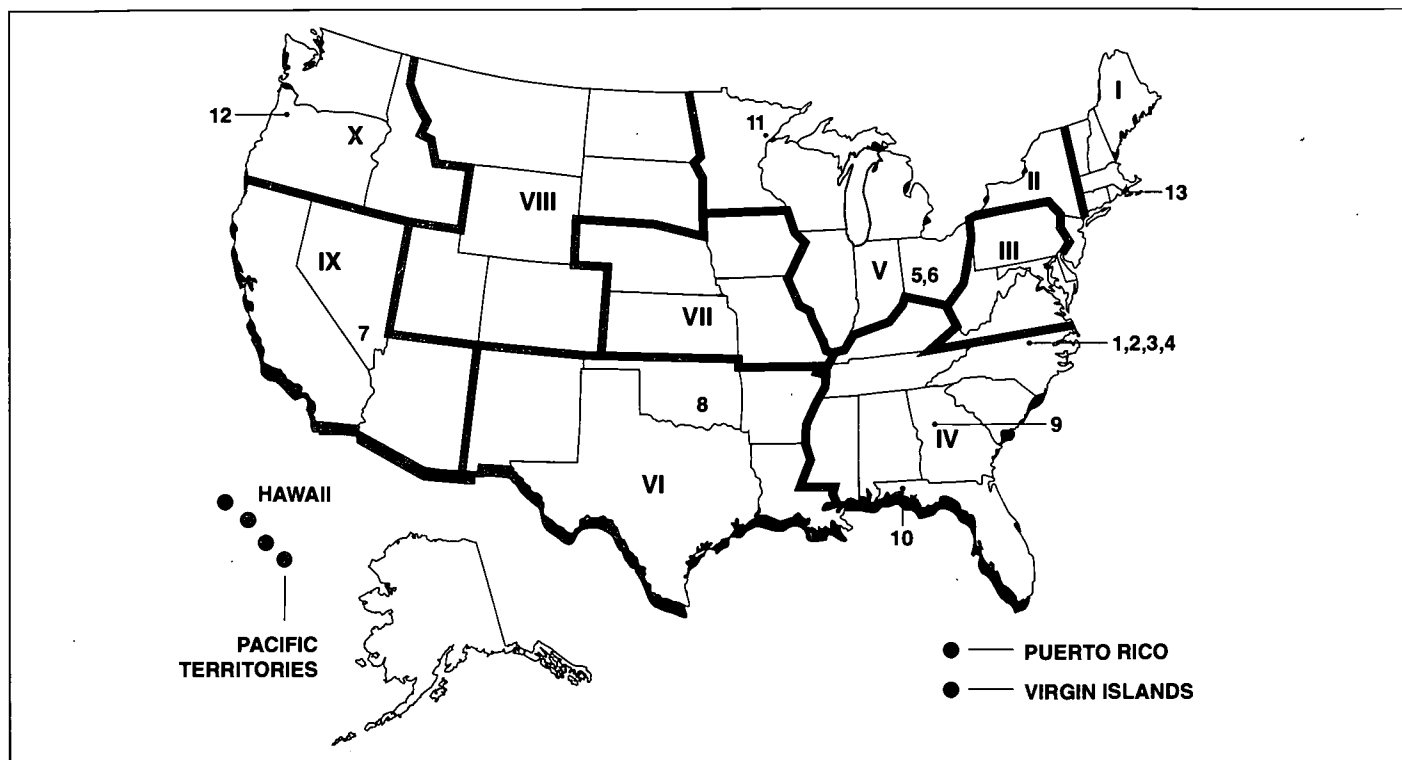
### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and EPA in 1971.

Doris Gillispie, Youth Program Coordinator  
Environmental Education Division  
U.S. Environmental Protection Agency  
401 M Street SW (1707)  
Washington, DC 20460  
(202) 260-8749 / Fax: (202) 260-0790  
E-mail: [gillispie.doris@epamail.epa.gov](mailto:gillispie.doris@epamail.epa.gov)

# U.S. Environmental Protection Agency (EPA)

## Regional Offices and Research Laboratories



### Regional Offices

Each EPA regional office has an Environmental Education Coordinator who oversees participation in regional environmental education programs, which include a variety of activities. Materials and information on environmental issues are also available. For complete contact information, see the EPA listing for each state in Section II of this publication.

- Region I** Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
- Region II** New Jersey, New York, Puerto Rico, Virgin Islands
- Region III** Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
- Region IV** Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
- Region V** Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin
- Region VI** Arkansas, Louisiana, New Mexico, Oklahoma, Texas

**Region VII** Iowa, Kansas, Missouri, Nebraska

**Region VIII** Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming

**Region IX** Arizona, California, Hawaii, Nevada, American Samoa, Guam

**Region X** Alaska, Idaho, Oregon, Washington

### Research Laboratories and Offices

The Office of Research and Development has research laboratories and offices that plan and administer a range of environmental programs, precollege through graduate level. Programs vary according to laboratory specialization and community needs.

- Air and Energy Engineering Research Laboratory**, Research Triangle Park, North Carolina
- Atmospheric Research and Exposure Assessment Laboratory**, Research Triangle Park, North Carolina
- Health Effects Research Laboratory**, Research Triangle Park, North Carolina
- Environmental Criteria and Assessment Office**, Research Triangle Park, North Carolina
- Risk Reduction Engineering Laboratory**, Cincinnati, Ohio
- Environmental Monitoring Systems Laboratory**, Cincinnati, Ohio
- Environmental Monitoring Systems Laboratory**, Las Vegas, Nevada
- Robert S. Kerr Environmental Research Laboratory**, Ada, Oklahoma
- Environmental Research Laboratory**, Athens, Georgia
- Environmental Research Laboratory**, Gulf Breeze, Florida
- Environmental Research Laboratory**, Duluth, Minnesota
- Environmental Research Laboratory**, Corvallis, Oregon
- Environmental Research Laboratory**, Narragansett, Rhode Island

# National Aeronautics and Space Administration (NASA)

*NASA's mission in aeronautics and space, its unique facilities, and specialized workforce provide educators and students a national resource for enhancing and expanding scientific and technological competence. The agency's commitment to promoting excellence in America's education system is carried out through the integrated application of science, mathematics, and technology that is inherent in NASA's research capabilities, scientific discoveries, advanced technologies, and future explorations.*

**Daniel S. Goldin, Administrator**

**National Aeronautics and Space Administration**



## Mission

As the agency responsible for the nation's civilian aerospace program, the mission of the National Aeronautics and Space Administration (NASA) is threefold:

- ▶ To advance and communicate scientific knowledge and understanding of the Earth, the solar system, and the universe, and to use the environment of space for research.
- ▶ To explore, use, and enable the development of space for human enterprise.
- ▶ To research, develop, verify, and transfer advanced aeronautics, space, and related technologies.

## Background

On October 1, 1958, the U.S. Congress created the National Aeronautics and Space Administration through the Space Act. The legislation combined certain military space research programs with the existing National Advisory Committee for Aeronautics to create a unique civilian agency for aeronautical and space activities.

Current major areas of activity include four enterprises: Earth Science, Aeronautics and Space Transportation Technology, Human Exploration and Development of Space, and Space Science. Ten Field Centers located across the country provide NASA with the expertise to conduct research in all facets of aeronautics and space.

## Role in Mathematics and Science Education

NASA's vision is to promote excellence in America's school systems by involving educators in its endeavors to create learning opportunities and enlighten inquisitive minds. NASA uses its inspiring mission, unique facilities, and specialized workforce to conduct science, mathematics, technology, and geography education programs.

## Elementary and Secondary

To nurture early enthusiasm for science, mathematics, and technology, NASA has developed a broad range of programs and services for students at the elementary and middle school levels. These programs are specifically designed to use space and aeronautics as the vehicle to inspire students' interest in science, mathematics, and technology. Once interest has been captured, it is imperative to follow through at the secondary level with both formal and informal education experiences. NASA provides programs for teachers and faculty that have been specifically designed to enhance their knowledge, skills, and experience. Additionally, in a continuing effort to address groups that have not been adequately represented in the science and engineering workforce, NASA offers educational programs that are specifically tailored for underrepresented minority students at the middle school and high school levels, as well as for minority teachers and faculty members.

## Higher Education

NASA's higher education programs target faculty, graduate and undergraduate students, colleges and universities, and other organizations with an interest in aeronautics; life, Earth, and space science research; education; and related public service. NASA's programs at the collegiate level feature active participation in NASA research, undergraduate and graduate student financial support, and faculty preparation and enhancement activities.

## Public Understanding of Science

NASA Visitor Centers offer the public a unique chance to see first-hand the past, present, and future of U.S. aerospace research. The centers display hundreds of artifacts, scale models, and pieces of actual space equipment. Many also offer special films, programs, and attractions that highlight achievements of the past 30 years or ideas for future explorations.

## How Mathematics and Science Education Programs Are Administered

NASA's national education programs are carried out through NASA Headquarters and the 10 NASA Field Centers. The Headquarters Education Division of the Office of Human Resources and Education oversees education programs and activities at a national level, while the 10 Field Centers administer segments of the national programs, as well as additional regional and local programs. To find the Field Center serving your state, see the State Highlights section of this publication.

## Administrative Offices for Mathematics and Science Education

NASA's Education Program is carried out through six primary categories:

### ▶ Teacher/Faculty Preparation and Enhancement

NASA uses its mission, facilities, human resources, and programs to provide professional development for K-12 teachers and higher education faculty. Access is provided to NASA information in science, mathematics, geography, technology, and engineering. The teachers and faculty participate in NASA research and development activities, apply methods for integrating these resources into their teaching, and are informed about available NASA resources.

### ▶ Curriculum Support and Dissemination

NASA develops, uses, and disseminates science, mathematics, geography, engineering, and technology instructional materials based on NASA's unique mission and supports the development of higher education curriculum. Because education is primarily a state and local issue, the agency seeks to understand common curricula topics or standards, collaborate with outside education experts, and work with NASA



Strategic Enterprise content experts to translate the NASA mission into supplementary instructional products. These products are derived from the mission activities conducted by the four NASA Strategic Enterprises. A comprehensive dissemination system has been developed to ensure that our customers have access to these products. The system is composed of a physical presence in each state, electronic networking resources, integration of our instructional products into our teacher/faculty workshops, and partnerships with organizations involved in systemic education reform.

### ► Support for Systemic Change

NASA uses its unique assets to support local, state, regional, and national mathematics, science, engineering, geography, and technology education change efforts through collaboration with internal and external stakeholders. As the nation continues to reform science, mathematics, geography, and technology instruction in its K-12 schools, NASA has emphasized the coordination of all of its assets in each state toward meeting the state's education reform agenda. By establishing a variety of partnerships, NASA seeks to convene NASA principal investigators, NASA-trained teachers, and commercial contractors with each state's education leadership to determine how these assets may best be used within the state.

### ► Student Support

NASA provides information, experiences, and research opportunities to enhance students' knowledge and skills in the areas of science, mathematics, engineering, and technology. Student support programs involve students in the intrinsically interesting and informative NASA mission.

### ► Educational Technology

NASA researches and develops products and services that facilitate the application of technology to enhance both formal education and lifelong learning. NASA's Educational Technology program supports two of the four components of the National Educational Technology Initiative. NASA develops innovative learning tools and strategies and provides professional development programs to assist teachers in using them.

### ► Research and Development

Research activities occur primarily, though not exclusively, at the graduate level and involve graduate students and faculty who make substantive contributions to NASA's mission. In addition to directly supporting NASA programs, these activi-

ties promote the development of new collaborations with the academic community and significantly enrich graduate education and research.

Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1110  
<http://www.hq.nasa.gov/office/odef/education/index.html>

### Elementary and Secondary Branch Office

This office oversees a broad range of programs and services for educators and students at the elementary and secondary levels.

Elementary and Secondary Branch  
Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1110

### Higher Education Branch Office

This office oversees higher education programs and services created for faculty, graduate and undergraduate students, and colleges and universities.

Higher Education Branch  
Education Division  
NASA Headquarters, Code FEH  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1531

### Technology and Evaluation Branch

This branch disseminates educational products and materials for teachers and students of all grade levels through the NASA Centers, the Educator Resource Center Network (ERCN), NASA Television, and NASA Spacelink. ERCN is a NASA space science educational material distribution system that reaches more than 220,000 educators a year. The system is composed of the NASA Central Operation of Resources for Educators (CORE), NASA Educator Resource Centers (ERCs), and NASA Regional Educator Resource Centers (RERCs). Spacelink complements ERCN by using a computer network to distribute text and graphic information, whereas NASA Television transmits NASA news and educational videotapes via satellite. CORE serves all nonprofit educators worldwide by maintaining the current list of ERCs and RERCs nearest the caller.

Technology and Evaluation Branch  
Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1518

## National Programs for K-12 Education

### Aerospace Education Services Program (AESP)

This nationwide program is designed to enhance educator awareness and understanding of scientific research and technological developments. AESP uses NASA's unique assets to support local, state, and regional curriculum frameworks as well as existing and emerging national education standards. To request an AESP program, educators should contact the NASA Field Center serving their state.

Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1439  
<http://www.okstate.edu/aesp/AESP.html>

### Central Operation of Resources for Educators (CORE)

CORE was established for the national and international distribution of NASA educational materials including audiovisuals, laserdiscs, CD-ROMs, and educational software. To receive a catalog and order forms, submit written requests on school letterhead. A nominal fee includes the cost of the materials plus shipping and handling.

NASA CORE  
Lorain County JVS  
15181 Route 58 South  
Oberlin, OH 44074  
(440) 774-1051, ext. 293/294  
<http://spacelink.nasa.gov/CORE/>

### MATHCOUNTS

This annual mathematics competition for seventh and eighth grade students brings a number of organizations together in a cooperative effort to promote excellence in mathematics. Competition begins at the local level and culminates in a national contest. NASA sponsors a week-long trip to the U.S. Space Camp for individual and team winners of the national competition; in addition, a three-day mathematics workshop at a NASA Field Center is awarded to the top eight coaches in the national competition.

MATHCOUNTS  
1420 King Street  
Alexandria, VA 22314  
(703) 684-2928  
<http://thechalkboard.com/MC/>

## NASA Educational Workshops (NEW)

The NEW program models the integration of the national standards in mathematics, science, and technology. The workshops provide teachers with an opportunity to observe NASA state-of-the-art research and development through direct interaction with scientists, engineers, technicians, and education specialists at NASA Field Centers. Activities incorporated into the workshops help teachers adapt their new content knowledge, experience, and materials to their specific educational situations. All applications must be received by February 20 each year.

National Science Teachers Association  
NASA Education Workshops  
1840 Wilson Boulevard  
Arlington, VA 22201-3000  
<http://www.nsta.org/programs/new.htm>

## NASA Educator Resource Center Network (ERCN)

ERCN helps educators enhance their curricula with workshops and information generated by NASA programs, technology, and discoveries. Although NASA instructional products relate primarily to science, mathematics, technology, and geography, they can be valuable supplements for all subject areas.

ERCN instructional products are aligned with national standards and appropriate state frameworks and are based on NASA's unique mission and results.

Educator Resource Centers (ERC) facilitate the use of educational technologies (e.g., NASA Education Home Page, NASA Spacelink, Quest, NASA Television, CD-ROMs, etc.); provide inservice and preservice training for teachers who wish to use NASA curriculum support products; and partner with local, state, and regional educational organizations to become part of systemic initiatives in each state.

Educators may preview and/or copy NASA instructional materials at their regional ERC found in the State Highlights section of this publication.

NASA Educator Resource Center Network  
Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1538  
<http://edu.larc.nasa.gov/ercn.html>

## NASA Online Resources for Educators

These online resources provide current educational information and instructional materials to K-12 teachers, college faculty, and stu-

dents. The resources include science, mathematics, engineering, and technology educational materials; historical information related to the aeronautics and space program; current status of NASA projects; news releases; information on NASA educational programs; and software and graphics files. Educators and students can also use NASA resources as learning tools to explore the Internet, access information about educational grants, interact with other schools already online, participate in online interactive projects, and communicate with NASA scientists, engineers, and other team members to experience the excitement of real NASA projects. Online resources include:

- ▶ **Spacelink** (<http://spacelink.nasa.gov/>) is a comprehensive electronic library containing NASA instructional products as well as current and historical information related to NASA's aeronautics and space research.
- ▶ **Quest** (<http://quest.arc.nasa.gov/>) is the home of NASA's K-12 Internet Initiative. The project specializes in providing programs, materials, and opportunities for teachers and students to use NASA resources as learning tools to explore the Internet.
- ▶ **NASA Television** (<http://www.hq.nasa.gov/ntv.html>) features Space Shuttle mission coverage, live special events, educational programs, electronic field trips, aviation and space news, and historical NASA footage. Programming has a three-hour block that is divided into a Video File, NASA Gallery, and Education File.

## NASA Student Involvement Program (NSIP)

This innovative educational competition provides opportunities for students and their teachers in grades K-12 to expand their knowledge of science, mathematics, technology, and geography. Through hands-on and minds-on activities incorporating real-world challenges, students participate in actual or simulated problems.

Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1529

## NASA Teaching from Space Program

*NASA... On the Cutting Edge* is a series of exciting, interactive shows that take students and educators on electronic field trips to laboratories, classrooms, and remote sites across the country to experience the application of science, mathematics, and technology in real-world settings. Viewers will be able to see

how the skills they are learning in school—including teamwork, cooperation, and commitment to excellence—are used by scientists, engineers and other professionals every day. The 30-minute live shows target educators and students in grades 5-12. During the broadcasts, students and educators will have opportunities to post questions via e-mail or phone on a toll-free line and converse on-air with the experts.

NASA... On The Cutting Edge  
NASA Teaching from Space Program  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 554-4380 / Fax: (202) 554-5378  
<http://www.okstate.edu/aesp/VC.html>

## Science and Engineering Fairs

To stimulate interest in aeronautics and aerospace sciences among secondary school students, NASA participates in the science fairs administered by Science Service. NASA recognizes students with outstanding projects in aeronautics, space sciences, mathematics, space technology, and applications. Participation in NASA's award program must be requested by fair directors, and NASA depends on individual science and engineering fair judges to select recipients of NASA certificates. NASA's own team of judges attends the international fair and selects 10 students to receive an educational trip, accompanied by their teachers, to a NASA Field Center.

Science Service  
1719 N Street NW  
Washington, DC 20036  
(202) 785-2255  
<http://www.sciserv.org/>

## Space Amateur Radio Experiment (SAREX)

With the help of amateur radio clubs and ham operators, astronauts on designated shuttle flights make radio contacts while in orbit. The astronauts talk directly with teachers, parents, and community members. The American Radio Relay League (ARRL), the Radio Amateur Satellite Corporation, and NASA's Education Division sponsor this shuttle experiment. ARRL can provide educators with lesson plans and resource materials.

American Radio Relay League  
225 Main Street  
Newington, CT 06111  
(860) 594-0200  
<http://www.arrl.org/>

### Summer High School Apprenticeship Research Program (SHARP) Plus

SHARP Plus is an intensive research-based mentor program that is the residential analogue of the NASA Summer High School Apprenticeship Research Program. SHARP Plus research experiences occur in industry or in laboratories at universities that host participants on their campuses. The objective of the program is to increase underrepresented students' participation and success rates in mathematics and science precollege courses, thereby increasing the pool of underrepresented mathematics, science, and engineering majors in college, and leading to an eventual impact in the workplace. A group of 300 11th and 12th grade students with aptitude and interest in science and engineering participate in this eight-week experience.

SHARP Plus  
Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1631  
[http://www.jsc.nasa.gov/coop/sharp\\_plus.html](http://www.jsc.nasa.gov/coop/sharp_plus.html)

### Urban Community Enrichment Program (UCEP)

UCEP is a professional development opportunity for educators teaching grades 5-8. The program consists of hands-on science, mathematics, and technology activities. Teachers discuss current aerospace discoveries with aerospace specialists, engineers, scientists, and technicians.

Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1439  
<http://aesp.nasa.okstate.edu/UCEP/UCEP.html>

framework demonstrates the integration of three components of all NASA education programs, projects, or activities. (See graphic below.)

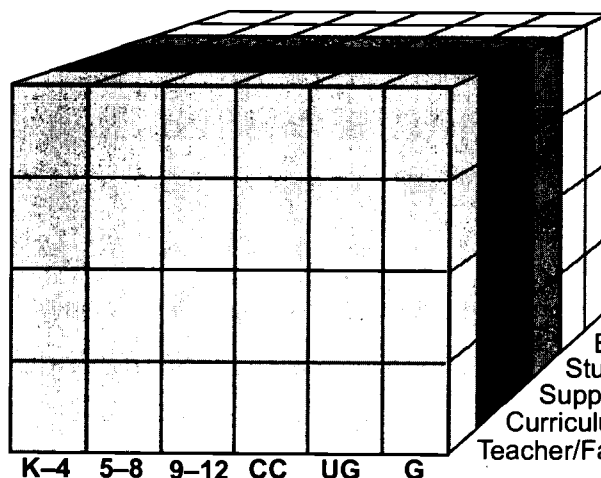
Education Division  
NASA Headquarters, Code FE  
300 E Street SW  
Washington, DC 20546-0001  
(202) 358-1110

## NASA Education Framework

The NASA Education Program and Evaluation Framework provides a graphical representation of the NASA Education Program. It serves not only as a guidance tool, but also as an analytical mechanism to assist in the evaluation of NASA's outreach to the education community. The

### NASA Mission (Content)

Earth Science  
Space Science  
Human Exploration and  
Development of Space  
Aeronautics and Space  
Transportation Technology



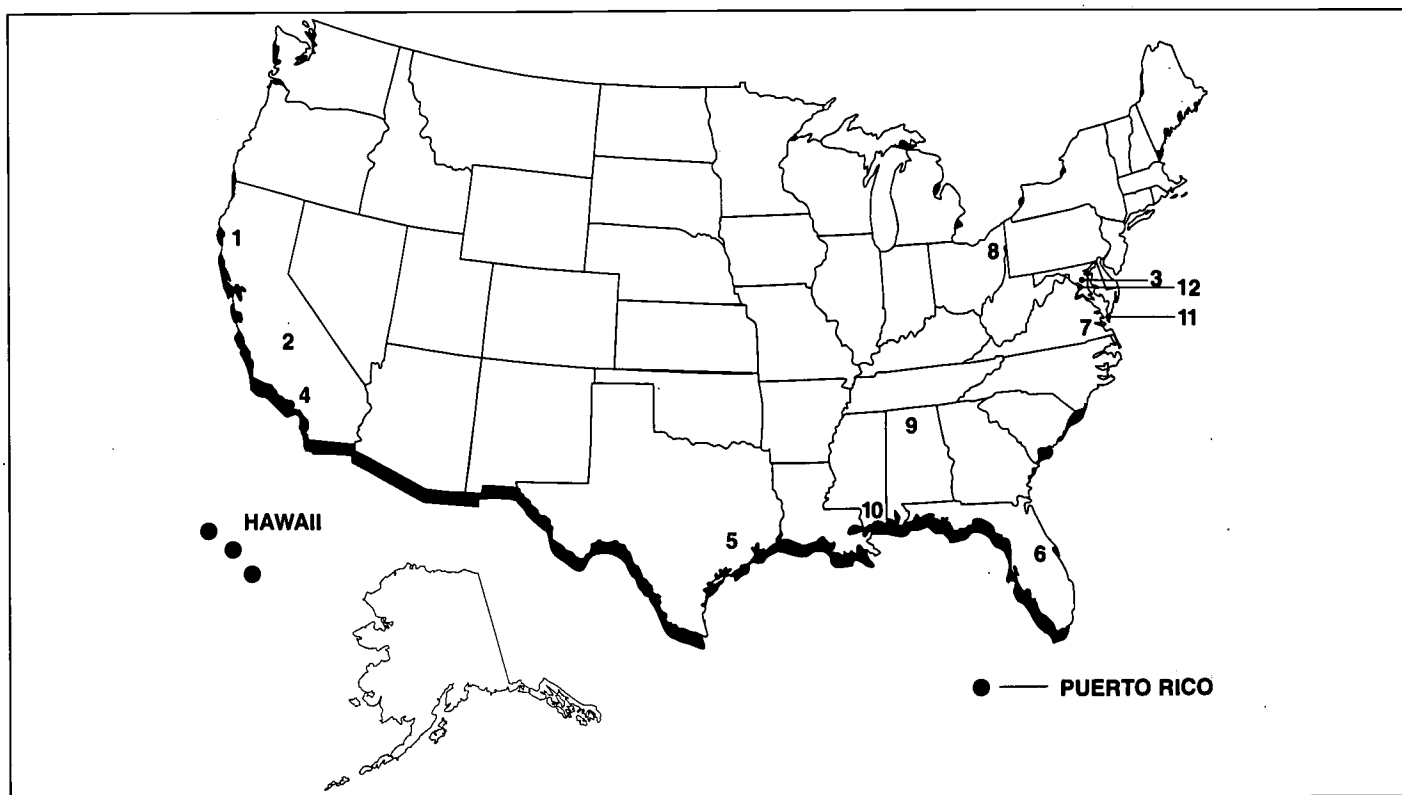
### Education Program Categories:

Research & Development  
Educational Technology  
Student Support  
Support for Systemic Education  
Curriculum Support & Dissemination  
Teacher/Faculty Preparation & Enhancement

Customer: Education Community  
(Formal/Informal)

## Framework Components

# NASA Headquarters and Field Centers



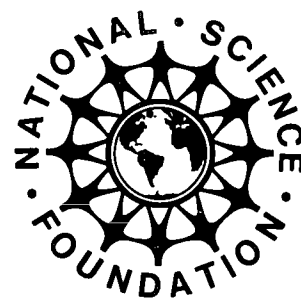
1. **Ames Research Center, Moffett Field, California**, contributes to the U.S. space program in the areas of space science, life sciences, and space technology.
2. **Dryden Flight Research Facility, Edwards Air Force Base, California**, is the Nation's premier aeronautical flight test facility and the landing site for many Space Shuttle missions.
3. **Goddard Space Flight Center, Greenbelt, Maryland**, is a unique national facility where hundreds of scientists, engineers, and technicians work together to design, develop, fabricate, test, launch, and track spacecraft; operate flight projects; and analyze data.
4. **Jet Propulsion Laboratory, Pasadena, California**, has as its primary focus the scientific study of the solar system and the exploration of the planets with automated spacecraft.
5. **Lyndon B. Johnson Space Center, Houston, Texas**, is the focal point for NASA's manned space flight program. Johnson has been "Mission Control" for all manned space flights since Gemini 4 in 1965.
6. **John F. Kennedy Space Center, Cape Canaveral, Florida**, is the primary launch site for manned and unmanned space vehicles. Situated on a national wildlife refuge, it is the NASA Field Center where rockets and their payloads are inspected, prepared, and launched.
7. **Langley Research Center, Hampton, Virginia**, focuses primarily on aeronautical research. The Center currently devotes two-thirds of its programs to aeronautics and the remainder to space research.
8. **Lewis Research Center, Cleveland, Ohio**, conducts a varied program of research in aeronautics and space technology. Aeronautics research at Lewis includes work on advanced materials and structures for aircraft. Space-related research focuses primarily on power and propulsion.
9. **George C. Marshall Space Flight Center, Huntsville, Alabama**, is the primary propulsion system center for NASA. Its rockets sent the first Americans into space, landed men on the moon, launched Skylab, and lifted the Space Shuttle into orbit.
10. **John C. Stennis Space Center, Mississippi**, is NASA's prime test facility for large liquid propellant rocket engines and propulsion systems. Stennis is also responsible for research programs in environmental sciences and remote sensing of Earth's resources.
11. **Wallops Flight Facility, Wallops, Virginia**, is a special facility for suborbital research, operated by Goddard Space Flight Center.
12. **NASA Headquarters, Washington, DC**, oversees agency programs.



# National Science Foundation (NSF)

*Education in science and mathematics involves a chain of links from preschool through K-12, to undergraduate and graduate study, and a parallel chain of informal learning experiences. All the links must be strong. Education must stimulate the interests of all students, indeed of all citizens, so as to ensure that the nation will have the science and technology workforce—including scientists and engineers—it needs in the years ahead and the scientifically literate citizenry needed for the knowledge workforce of the 21st century. In its education programming, the foundation reaches out to all—not just to those who may become the scientists and engineers of tomorrow.*

**Luther S. Williams, Directorate for Education and Human Resources  
National Science Foundation**



## Mission

The National Science Foundation (NSF) is a catalyst for progress through fundamental research and education activities in science, mathematics, engineering, and technology. The agency is guided by its long-standing commitment to the highest standards of excellence in support of discovery and learning. NSF pledges to provide the leadership and stewardship necessary to sustain and strengthen the nation's science, mathematics, engineering, and technology capabilities, and to promote the use of those capabilities in service to society.

## Background

NSF, an independent federal agency, was established in 1950. Policy-making authority within the agency is vested in the National Science Board, which is composed of scientists, educators, and public affairs experts. Its 25 members are appointed by the President with the consent of Congress.

NSF provides funding for research and education in the sciences and engineering. However, the foundation does not support clinical research. Most proposals are initiated by educational institutions and other organizations rather than from individuals. More than one-half of its professional staff are scientists, engineers, and educators in these disciplines—60 percent on temporary assignment as visiting scientists and Inter-Program Assignees. These individuals oversee the disbursement of funds through seven directorates within the foundation: Biological Sciences; Computer and Information Science and Engineering; Education and Human Resources; Engineering; Geosciences; Mathematical and Physical Sciences; and Social, Behavioral, and Economic Sciences.

## Role in Mathematics and Science Education

The National Science Foundation Act of 1950 authorizes and directs the foundation to initiate and support education programs in virtually all fields of science and engineering, at all educational levels. The agency capitalizes on its unique ability to draw on the expertise of the science and mathematics research and edu-

cation communities. Each year, NSF submits to Congress an updated five-year strategic plan for science and engineering education. The plan addresses both short-term objectives that benefit the students currently in the system and long-term goals that result in fundamental changes to the basic delivery of education.

### Elementary and Secondary

NSF emphasizes elementary and secondary science, mathematics, and technology education, with the objectives of attracting and sustaining the interest of all students in these fields, as well as improving the quality of instruction for all students. The foundation is actively involved in the support of reform efforts in science and mathematics instructional materials that emphasize comprehensive, integrated approaches to teaching and learning. Currently, NSF's highest priority in terms of funding is the enhancement of teachers' content and pedagogical knowledge in science, mathematics, and technology; implementation of systemic reform at state and district levels; and implementation of science and mathematics standards for content, teaching, and student performance assessment.

### Higher Education

NSF provides leadership and leveraged project support for the nation's technical colleges, two- and four-year colleges, and comprehensive and research universities. NSF programs seek to engage all undergraduate students in the learning of science and mathematics—those who will be engineers and scientists or skilled technicians in our work-force; teachers of science and mathematics in our schools; leaders of business, the professions, and government; and, in every case, citizens in an increasingly technology-based society.

At the graduate level and beyond, NSF's activities concentrate principally in two directions:

- ▶ Support for outstanding graduate students to ensure a steady flow of high-ability students through the education and research training systems.
- ▶ Support for postdoctorals and young faculty to attract beginning professionals to academic careers and provide them with critical study and research opportunities in their formative years.

## Public Understanding of Science

The foundation supports projects that provide rich and stimulating environments outside of school, where individuals of all ages, interests, and backgrounds can increase their appreciation and understanding of science and mathematics and their applications. Program emphases include establishing creative linkages between formal and informal education and stimulating parental/adult involvement in, and support of, quality science, mathematics, and technology education. These projects involve broadcast, print, and film; museums and science and technology centers; zoological parks, arboreta, and aquaria; and community-based organizations.

## How Mathematics and Science Education Programs Are Administered

The Directorate for Education and Human Resources (EHR) is the primary organizational unit for science, mathematics, engineering, and technology education within the foundation. EHR investments span all education levels: K-12, undergraduate, and graduate. The focus on K-12 activities is unique to EHR; the research directorates of NSF engage in higher education activities related to their disciplinary focus.

## Administrative Offices for Mathematics and Science Education

### Division of Educational System Reform

This division acts in partnership with selected states, cities, and rural regions. The focus is to elevate all students to new levels of achievement by offering high-quality, standards-based science and mathematics coursework in a challenging environment. To induce this new level of accomplishment, the division targets its investments through awardees engaged in key areas including curriculum and materials, practice and delivery, teacher leadership, educational management and governance, and assessment of student learning. The division



coordinates interventions that stimulate and sustain reform of whole education systems.

Luther S. Williams, Acting Director  
Division of Educational System Reform  
National Science Foundation  
4201 Wilson Boulevard, Suite 875  
Arlington, VA 22230  
(703) 306-1690 / Fax: (703) 306-0456  
<http://www.ehr.nsf.gov/EHR/ESR/index.htm>

### **Division of Elementary, Secondary, and Informal Education (ESIE)**

ESIE supports projects that enable all students—preK–12—to succeed in science, mathematics, and technology and that increase the scientific and technological literacy of students of all ages. These programs provide the educational foundation for future generations of scientists, engineers, and technologists; for those pursuing post-secondary education in other disciplines; and for those who enter the workforce directly from secondary school. ESIE programs inform citizens about the science, math, and technology issues that impact their lives and promote advocacy for high-quality education in these fields.

Division of Elementary, Secondary & Informal Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 885  
Arlington, VA 22230  
(703) 306-1628 / Fax: (703) 306-0412  
E-mail: [mcozzen@nsf.gov](mailto:mcozzen@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/ESIE/index.html>

### **Division of Human Resource Development (HRD)**

HRD works to increase diversity in the workforce by broadening the participation of persons from underrepresented groups in science, engineering, and mathematics. Working on the precollege to graduate education levels, HRD programs focus on making comprehensive and systemic changes in the education and research training of minorities, women, and persons with disabilities.

Roosevelt Calbert, Director  
Division of Human Resource Development  
National Science Foundation  
4201 Wilson Boulevard  
Arlington, VA 22230  
(703) 306-1640 / Fax: (703) 306-0423  
E-mail: [rcalbert@nsf.gov](mailto:rcalbert@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/HRD/index.htm>

### **Division of Research, Evaluation, and Communication**

The division provides conceptual and technical assistance to programs of the NSF Education and Human Resources (EHR) Directorate, as well as science and mathematics education communities outside and inside NSF. It man-

ages contracts for evaluation of all EHR-sponsored education programs and assists in the development and implementation of the Government Performance and Results Act (GPRA). Programs also help support basic education research, especially on systemic reform through its Research on Education, Policy, and Practice program. Other initiatives include bridging research to classroom practice, fostering systemic thinking about the coordination and delivery of educational services, and measuring change in educational programs. The division also supports ongoing projects in advanced technologies and teaching and learning, as well as communication activities that advance public awareness of EHR's reform programs.

William Sibley, Acting Director  
Division of Research, Evaluation, and Communication  
National Science Foundation  
4201 Wilson Boulevard, Suite 855  
Arlington, VA 22230  
(703) 306-1650 / Fax: (703) 306-0434  
E-mail: [wsibley@nsf.gov](mailto:wsibley@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/REC/>

### **Division of Undergraduate Education**

This division is the focal point for NSF's agency-wide effort in undergraduate education. Programs support development of educational materials, courses, and curricula; adaptation, implementation, and dissemination of effective educational materials and practices; laboratory improvement; faculty professional development; preparation of future K–12 teachers; and advanced technological education for the workforce.

Norman L. Fortenberry, Director  
Division of Undergraduate Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 835  
Arlington, VA 22230  
(703) 306-1670 / Fax: (703) 306-0445  
E-mail: [nfortenb@nsf.gov](mailto:nfortenb@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/DUE/start.htm>

## **National Programs for K–12 Education**

### **Advanced Technological Education (ATE)**

ATE promotes exemplary improvement in advanced technology education through support of curriculum development and program improvement. The program targets technicians being educated for the high-performance workplace. It supports National and Regional Centers of Excellence in Advanced Technological Education and projects for the development of instructional materials and curricu-

lum. Also provided are support for instrumentation and laboratory improvement and technical experiences for students and faculty. Special projects include conferences and studies to improve understanding of issues in advanced technological education. ATE centers and projects improve advanced technological education, serve as models for other institutions, strengthen student preparation in mathematics and science, and yield educational products for national dissemination. The ATE program is jointly managed by the Division of Undergraduate Education (DUE) and the Division of Elementary, Secondary, and Informal Education (ESIE).

Advanced Technological Education  
Division of Undergraduate Education  
National Science Foundation  
4201 Arlington Boulevard, Suite 835  
Arlington, VA 22230  
(703) 306-1668  
E-mail: [undergrad@nsf.gov](mailto:undergrad@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/DUE/programs/ate/ate.htm>

### **Collaboratives for Excellence in Teacher Preparation (CETP)**

This program supports projects aimed at significantly increasing the number of preK–12 teachers well prepared to teach science and mathematics. Project activities include development of innovative materials, curricula, courses, and field experiences for teacher education; recruitment and retention efforts; and support for novice teachers. Projects, which are led by faculty in the scientific disciplines, emphasize a solid foundation in science or mathematics and rigorous attention to effective teaching practices, including the use of advanced instructional technologies. Special interests of CETP include multidisciplinary projects and initiatives for recruiting members of underrepresented groups into the teaching profession. The program encourages collaborations among scientists, science educators, teachers, and other educational leaders in higher education and in school districts. Colleges and universities or consortia with the capacity to prepare significant numbers of highly qualified teachers are eligible to submit proposals. Smaller-scale proposals involving teacher preparation are welcome in the Course, Curriculum, and Laboratory Improvement (CCLI) and Advanced Technological Education (ATE) programs of the Division of Undergraduate Education.

Teacher Preparation Program  
Division of Undergraduate Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 835  
Arlington, VA 22230  
(703) 306-1669 / Fax: (703) 306-0445  
E-mail: [undergrad@nsf.gov](mailto:undergrad@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/DUE/programs/cetp/cetp.htm>

## Comprehensive Partnerships for Mathematics and Science

### Achievement (CPMSA) Program

CPMSA strives to improve the science and mathematics achievement of pre-college students, thereby enabling them to successfully pursue undergraduate programs and careers in science, mathematics, engineering, and technology. CPMSA promotes system-wide approaches for enhancing all major components of an educational system. It targets city school systems outside the nation's largest districts, which are supported by the Urban Systemic Initiative Program. CPMSA functions through cooperative agreements between city school systems and other entities, including institutions of higher education, business and industry, and professional and community organizations. The goal of these partnerships is to facilitate the development of standards-based, high-performance science and mathematics education for all students.

Comprehensive Partnerships for Mathematics and Science Achievement Program  
Division of Human Resource Development  
National Science Foundation  
4201 Wilson Boulevard  
Arlington, VA 22230  
(703) 306-1633 / Fax: (703) 306-0423  
E-mail: [hrdpmsa@nsf.gov](mailto:hrdpmsa@nsf.gov)  
<http://www.ehr.nsf.gov/ehr/hrd/cpmsa/>

### Informal Science Education (ISE) Program

ISE provides opportunities for individuals of all ages and backgrounds to increase their appreciation and understanding of science, mathematics, engineering, and technology. ISE projects take place outside formal school settings in diverse environments including museums, community centers, and homes. Projects typically are designed to reach large audiences or to have the potential for significant national or regional impact through various media such as broadcast film, interactive technology, and print. To broaden its impact, ISE promotes collaborations among organizations that have similar goals, especially when such projects bridge the informal and formal education communities. In cooperation with the Instructional Materials Development Program and the Teacher Enhancement Program, ISE supports projects to increase involvement of parents and caregivers in science, mathematics, and technology education.

Informal Science Education Program  
Division of Elementary, Secondary, and Informal Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 885  
Arlington, VA 22230  
(703) 306-1616  
<http://www.nsf.gov/pubs/1998/nsf984/program.htm#10>

## Instructional Materials Development (IMD) Program

IMD projects create curricula, materials, and student assessments that change classroom instruction, enabling students to acquire sophisticated content knowledge, higher-order thinking abilities, and problem-solving skills. The materials incorporate investigative, hands-on science, math, and technology education activities that align with recently developed standards for content, teaching, and assessment. IMD-supported materials promote the success of all students, regardless of background or ability. Another goal is the improvement of student attitudes toward science, mathematics, and technology. Projects range from major revisions of existing materials to the creation of entirely new ones; from development of a few modules at a single instructional level to comprehensive curricula for several school years; from focus on a single subject to the integration of several disciplines; and from assessments embedded in classroom materials to the creation of full assessment programs that can be used by districts and states. All projects include comprehensive national dissemination plans to ensure wide use of the materials in diverse settings. In cooperation with the Teacher Enhancement Program, IMD supports implementation sites to assist districts in the selection and implementation of curricula. In cooperation with the Informal Science Education and Teacher Enhancement Programs, IMD also supports projects to increase the involvement of parents and caregivers in science, math, and technology education.

Instructional Materials Development Program  
Division of Elementary, Secondary, and Informal Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 885  
Arlington, VA 22230  
(703) 306-1614  
<http://www.nsf.gov/pubs/1998/nsf984/program.htm#11>

## Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM) Program

The PAESMEM Program, administered by NSF on behalf of the White House, seeks to identify outstanding mentoring activities designed to enhance the participation of groups that are underrepresented in science, mathematics, and engineering. The program honors individuals and institutions that have garnered exemplary records in mentoring students at all education levels toward significant achievements and careers in these fields. Every year, up to 10 individual and 10 institutional awards are made; each awardee receives a grant of \$10,000 and a commemorative Presi-

dential certificate. The program encourages students to study and conduct research in partnership with mentors and acquaints them with strategies that lead to baccalaureate and advanced degrees.

Roosevelt Calbert, Director, Division of Human Resource Development  
Education and Human Resources Directorate  
National Science Foundation  
4201 Wilson Boulevard, Room 815  
Arlington, VA 22230  
(703) 306-1640  
E-mail: [rcalbert@nsf.gov](mailto:rcalbert@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/HRD/pubs/nsf9874.htm>

## Presidential Awards for Excellence in Science and Mathematics Teaching (PAEMST) Program

The NSF operates the PAEMST Program on behalf of the White House. The program recognizes career excellence for teachers at both elementary and secondary grade levels. Awards are made in each state and in a group that includes four jurisdictions: Washington, DC, Puerto Rico, Department of Defense Dependent Schools, and U.S. Territories (American Samoa, Guam, the Commonwealth of the Northern Marianas, and the Virgin Islands). Teachers submit applications to state or jurisdiction selection committees which, in turn, select three candidates from each of the four disciplinary/grade-level award groups. These nominees are then forwarded to a national selection committee comprising prominent scientists, mathematicians, educators, and past awardees. This committee recommends four finalists (one from each of the four disciplinary/grade-level categories) from each state and eligible jurisdiction. PAEMST teachers constitute a national network of outstanding leaders in science and mathematics education and are a rich resource for the improvement of science and mathematics education throughout the nation.

Janice Earl  
Presidential Awards for Excellence in Science and Mathematics Teaching  
Division of Elementary, Secondary, and Informal Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 885  
Arlington, VA 22230  
(703) 306-1614 / Fax: (703) 306-0412  
<http://www.ehr.nsf.gov/EHR/ESIE/awards/core.htm>

## Programs for Persons with Disabilities

These programs help students with disabilities participate fully in science, mathematics, engineering, and technology education. The programs also promote career opportunities in these disciplines for qualified people with dis-

abilities. Projects are designed to change the present academic and professional climates that produce barriers to reaching these goals. Activities include developing innovative methods of teaching science and mathematics to all students, including those with disabilities, and increasing the recognition of the capabilities and needs of students with disabilities among education professionals and the general public. The programs also provide mentors for students with disabilities and promote the accessibility of instructional materials and educational technologies.

Programs for Persons with Disabilities  
Division of Human Resource Development  
Directorate for Education and Human Resources  
National Science Foundation  
4201 Wilson Boulevard, Suite 885  
Arlington, VA 22230  
(703) 306-1636 / Fax: (703) 306-0423  
E-mail: [hrdppd@nsf.gov](mailto:hrdppd@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/HRD/ppd/ppd.html>

### **Programs for Women and Girls**

These programs aim to improve the overall science, engineering, and mathematics education of women and girls and to increase the representation of women in careers in those fields. The initiative addresses educational issues from preschool through the graduate level, as well as professional issues. Two programs—Implementation and Development Projects and Information Dissemination Activities for Women and Girls—accomplish these goals.

Programs for Women and Girls  
Division of Human Resource Development  
Directorate for Education and Human Resources  
National Science Foundation  
4201 Wilson Boulevard  
Arlington, VA 22230  
(703) 306-1637 / Fax: (703) 306-0423  
E-mail: [hrdwomen@nsf.gov](mailto:hrdwomen@nsf.gov)  
<http://www.ehr.nsf.gov/EHR/HRD/women/default.html>

### **Rural Systemic Initiatives (RSI) Program**

RSI addresses barriers to systemic and sustainable improvements in science, mathematics, and technology education in rural, economically disadvantaged regions of the nation. Regions are defined by similarities in social, cultural, and economic circumstances, rather than by government boundaries. The program supports activities that define present needs and resources and that establish future educational goals. Formation of partnerships is encouraged. RSI also supports strategies directed toward systemic educational reform, such as professional development that is aligned with national science and mathematics

standards. Other goals include formulation of curricula and assessment strategies that promote and measure achievement in all students, regardless of culture or socioeconomic status. RSI Regions are depicted on the map on page 55.

Rural Systemic Initiatives  
Division of Educational System Reform  
National Science Foundation  
4201 Wilson Boulevard, Suite 875  
Arlington, VA 22230  
(703) 306-1684 / Fax: (703) 306-0456  
<http://www.ehr.nsf.gov/EHR/ESR/index.htm>

### **Statewide Systemic Initiatives (SSI) Program**

SSI encourage improvements in science, mathematics, and engineering education through comprehensive changes in state education systems. The program represents a strategy to strengthen the infrastructure for science and mathematics education through alignment of state policies and resources. This requires the collaboration of educators at all levels, business and industry, parents, and the community at large. States are selected for funding through a rigorous merit review process that includes preliminary proposals, panel reviews of full proposals, and site visits. Selection is based on state commitment to fundamental reform of mathematics and science education that includes curriculum goals, assessment, teacher development, equity, governance, and improved outcomes. State leaders must demonstrate consensus on the current status of science and mathematics education and on the identification of the most serious problems that need to be addressed. Also required are partnerships that enable the effort to succeed; a plan for effective management and oversight; and an evaluation plan that encourages mid-course corrections. States involved in SSI are identified on the map on page 55.

Statewide Systemic Initiatives  
Division of Educational System Reform  
National Science Foundation  
4201 Wilson Boulevard, Suite 875  
Arlington, VA 22230  
(703) 306-1684 / Fax: (703) 306-0456  
<http://www.ehr.nsf.gov/EHR/ESR/index.htm>

### **Teacher Enhancement (TE) Program**

TE projects provide professional development opportunities to broaden and deepen the content and pedagogical knowledge of teachers, improving their ability to deliver challenging science, mathematics, and technology education to all students. Programs engage teachers and students in meaningful research experiences that can be translated back to classrooms. Another important goal is provision of innovative, cost-effective applications of educational technology for underserved populations. Emphasis is placed on projects that

focus on teachers as the primary drivers of education reform in entire school districts. In cooperation with the Instructional Materials Development (IMD) Program, TE supports implementation sites to assist districts in selecting and implementing NSF-supported curricula. In cooperation with the Informal Science Education Program (ISE) and IMD, TE also supports projects to increase involvement of parents and caregivers in education.

Teacher Enhancement Program  
Division of Elementary, Secondary, and Informal Education  
National Science Foundation  
4201 Wilson Boulevard, Suite 885  
Arlington, VA 22230  
(703) 306-1613  
<http://www.nsf.gov/pubs/1998/nsf984/program.htm#14>

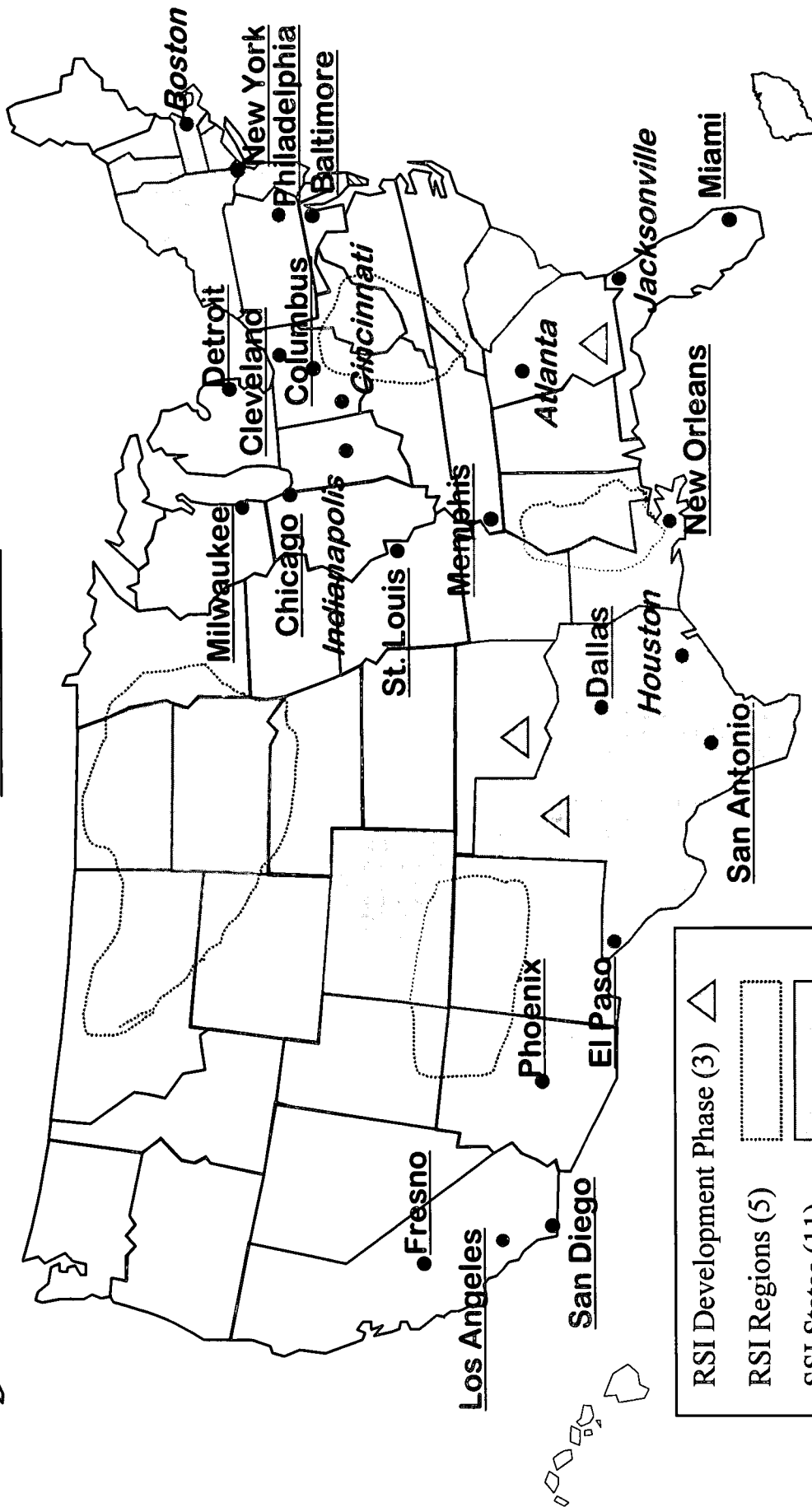
### **Urban Systemic Initiatives (USI) Program**

The USI Program in science, mathematics, and technology education is a comprehensive effort to promote fundamental reform of K–12 science and mathematics education in large urban school systems. Eligibility for the program is limited to school systems in cities having the largest numbers of school-aged children (ages 5–17) living in poverty as determined by the 1990 census. Built upon experience gained from the SSI Program and the Comprehensive Partnerships for Mathematics and Science Achievement, USI provides significant support for five years to city school systems that have completed comprehensive planning and demonstrated readiness to make systemic and sustainable changes in their policies, practices, and procedures. Cities involved in USI are identified on the map on page 55.

Urban Systemic Initiatives  
Division of Educational System Reform  
National Science Foundation  
4201 Wilson Boulevard, Suite 875  
Arlington, VA 22230  
(703) 306-1684 / Fax: (703) 306-0456  
<http://www.ehr.nsf.gov/EHR/ESR/index.htm>

# Educational System Reform

FY 1998



RSI Development Phase (3)

RSI Regions (5)

SSI States (11)

Funded USI Cities (19) underscoring

*Eligible USI Cities (9) in italics*

*Eligible USI sites in Commonwealth of PR:*  
*San Juan, Ponce, Bayamon*



# Smithsonian Institution

*Much of what the United States has achieved in the 20th century is due to its commitment to scientific inquiry and technological development. But our take-off was grounded in the preparation in science and mathematics of earlier generations of Americans. That intellectual capital is nearly spent. It is time to replenish it through investment in the education of new generations.*

**I. Michael Heyman, Secretary  
Smithsonian Institution**



## Mission

Established to increase and diffuse knowledge, the Smithsonian Institution is a trust instrumentality of the federal government. While the institution receives federal support for its operation, it has no government or regulatory functions and serves, in effect, as an independent agency.

## Background

The Smithsonian Institution was founded in 1846. Although it is best known for its many museums and the National Zoo, the Smithsonian is also one of the country's premier research facilities. In addition to its federally funded programs, the institution has many privately funded activities.

## Role in Mathematics and Science Education

As part of its mandate to increase and diffuse knowledge, the Smithsonian Institution considers science education to be one of its most important missions.

### Elementary and Secondary Education

In recent years, the institution has focused on assisting school systems in addressing the national crisis in science and mathematics education. Three areas receiving particular attention, both in the museums and in other Smithsonian bureaus, have been professional education for teachers, curriculum materials for schools, and programs to effect attitudinal changes about science.

### Higher Education

Through internships and fellowships, the institution provides individualized training in science for undergraduate and graduate students. Smithsonian programs in astrophysics and biology are especially outstanding.

### Public Understanding of Science

Through educational outreach programs, the Smithsonian Institution can improve science literacy among the general public. Special exhibits, onsite demonstrations, and publications inform and educate visitors.

## How Mathematics and Science Education Programs Are Administered

Each administrative division within the Smithsonian is responsible for its own education programs, and each museum has an education office that reports to the museum director. The Smithsonian Office of Education is the central office for precollege education.

## Administrative Offices for Mathematics and Science Education

### Harvard-Smithsonian Center for Astrophysics

The Smithsonian Astrophysical Observatory coordinates its varied scientific programs with the Harvard College Observatory, and together the two observatories form the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts. The Science Education Department at the center currently manages eight projects funded by the National Science Foundation (NSF) or the Annenberg Foundation, with additional support from the Smithsonian Institution. These projects use advanced technology, curricula and materials, teacher enhancement, and teacher networks to address the needs of teachers and students in elementary, secondary, and college science education.

Hal Coyle, Senior Writer  
Science Education Department  
Harvard-Smithsonian Center for Astrophysics  
60 Garden Street, MS-71  
Cambridge, MA 02138  
(617) 495-9798 / Fax: (617) 496-5404  
E-mail: hcoyle@cfa.harvard.edu  
<http://oir-www.harvard.edu/cfa-home.html>

### National Air and Space Museum

The museum is an internationally recognized center for aviation and space flight history known for its collection of aircraft and spacecraft. In addition to the historical research, the museum also supports the Center for

Earth and Planetary Studies. Plans are now underway to open a new facility at Dulles International Airport that will allow preservation and restoration work to continue in a proper environment. The Dulles Center will display new treasures such as the SR-71 Blackbird, the space shuttle Enterprise, and the fully restored Boeing B-29 Enola Gay. Internships are available for college students interested in the work of the museum. The Web site provides access to online galleries and student activities, as well as information and instructional materials.

Maureen Kerr, Educational Services Manager  
National Air and Space Museum  
Smithsonian Institution, MRC 305  
Washington, DC 20560  
(202) 633-2106 / Fax: (202) 633-8928  
E-mail: mkerr@nasm.si.edu  
<http://www.nasm.edu/>

### National Museum of Natural History/Museum of Man

This museum houses the world's largest and most valuable assemblage of natural history specimens and human artifacts. It is the largest research organization in the Smithsonian and has a large internship program at the college level. Through its many exhibits, educational programs, and scholarly and popular publications, the museum disseminates knowledge about the world's natural and cultural diversity.

Laura McKie, Assistant Director for Education  
National Museum of Natural History, MRC 158  
10th Street and Constitution Avenue NW  
Washington, DC 20560  
(202) 357-2066 / Fax: (202) 786-2778  
<http://www.mnh.si.edu/>

### National Science Resources Center

The National Science Resources Center is operated by the National Academy of Sciences/National Academy of Engineering/Institute of Medicine, and the Smithsonian Institution to improve the teaching of science in the nation's schools. The center's three principal program areas are national outreach to build consensus, dissemination of information, and development of innovative science curriculum materials.



Douglas Lapp, Executive Director  
National Science Resources Center, MRC 403  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-4892 / Fax: (202) 786-2028  
<http://www.si.edu/organiza/offices/scires/start.htm>

### National Museum of American History

The museum's Hands-on Science Center offers programs that engage students in the same kinds of activities that scientists use every day. Analyzing water samples, building a simple circuit, or measuring the radioactivity in common household objects, students learn about science from the inside, discovering how scientists change the way we live. To request information about school programs and a tour application form, call (202) 357-1481.

Theresa Esterlund, Director  
Hands-on Science Center  
National Museum of American History  
13th Street and Constitution Avenue, NW  
Washington, DC 20560  
(202) 786-2307 / Fax: (202) 357-3328  
<http://www.si.edu/organiza/museums/nmah/nmah.htm>

### National Zoological Park

The park maintains a living collection at the zoo and a major conservation, animal breeding, and research facility in Virginia. Through programs in education, research, conservation, and animal health, the park promotes understanding of animal adaptations and evolution, and the interaction of wildlife with the environment and human culture. Through a series of new exhibits, programs, and graphics, the zoo is being transformed into a biological preserve to educate the public about life in all of its forms and connections.

David Jenkins, Associate Director for Interpretive Programs  
National Zoo / Education Department  
3001 Connecticut Avenue NW  
Washington, DC 20008  
(202) 673-4919 / Fax: (202) 673-4746  
<http://www.si.edu/organiza/museums/zoo/nzphome.htm>

### Smithsonian Office of Education

Drawing on the collections, exhibitions, and research of the institution's many museums and research institutes, this office brings focus and synergy to the educational work of the Smithsonian as a whole. Priorities center on building an institution-wide publishing and information program, strengthening and coordinating the institution's professional development programs for teachers, promoting excellence in Smithsonian educational activities through leadership and support services, and

providing resources for the infusion of multicultural perspectives into Smithsonian educational programs and policies.

Thomas Lowderbaugh, Assistant Director  
Smithsonian Office of Education  
Arts and Industries Building, Room 1163  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-2005 / Fax: (202) 357-2116  
E-mail: [lowdert@soe.si.edu](mailto:lowdert@soe.si.edu)  
<http://educate.si.edu/intro.html>

### Smithsonian Environmental Research Center

The center conducts long-term scientific research on estuarine land and water ecosystems found in the Chesapeake Bay watershed. The results of its research are disseminated through scientific journals, national and international meetings and seminars, the training of scientists, and public education activities for adults, families, and K-12 students.

A. Mark Haddon, Education Director  
Smithsonian Environmental Research Center  
PO Box 28  
Edgewater, MD 21037  
(301) 261-4190 / Fax: (301) 261-7954  
E-mail: [haddon@serc.si.edu](mailto:haddon@serc.si.edu)  
<http://www.serc.si.edu/>

### Smithsonian Tropical Research Institute

This institute conducts basic research on the ecology, behavior, and evolution of tropical organisms. Headquartered in Panama, the institute carries out research throughout the tropics and is the custodian of the Barro Colorado Nature Monument, a 12,000 acre tropical nature preserve located along the Panama Canal. Other facilities include a cloud-forest station, a research vessel, marine laboratories on the Atlantic and Pacific Oceans, and a research library.

Georgina DeAlba  
Smithsonian Tropical Research Institute  
PO Box 2072  
Balboa, Republic of Panama  
(011) (507) 227-4918  
Fax: (011) (507) 232-5978  
E-mail: [Stremo@si.edu](mailto:Stremo@si.edu)  
<http://www.si.edu/organiza/centers/stri/stri.htm>

## National Programs for K-12 Education

### Leadership and Assistance for Science Education Reform (LASER)

LASER disseminates and implements high quality, NSF-supported K-8 science curriculum materials to more than 300 school dis-

tricts. The initiative is intended to develop regional collaboration among the school districts. To accomplish this goal, the National Science Resources Center has formed partnerships with eight regional sites, publishers of NSF-supported middle and elementary school curriculum materials, several major corporations, and NSRC's parent institutions, the Smithsonian Institution and the National Academy of Sciences/National Academy of Engineering/Institute of Medicine. Together with the NSRC, the LASER partners will offer a comprehensive menu of events, products, and services for initiating and implementing inquiry-centered science curriculum programs for all of their K-8 students.

Leslie Benton, Program Director for Outreach  
National Science Resources Center  
955 L'Enfant Plaza SW, Suite 8400  
Washington, DC 20024  
(202) 287-2066 / Fax: (202) 287-2070  
E-mail: [outreach@nas.edu](mailto:outreach@nas.edu)

### NSRC Elementary and Middle School Science Leadership Institutes

These institutes provide teams of administrators, curriculum specialists, teachers, and scientists from school districts across the country with the information and skills they need to develop and maintain effective hands-on science programs. The institutes are staffed by science educators and scientists who have implemented exemplary elementary science programs in their districts. This initiative includes technical assistance to school districts across the country that are working to reform their elementary science programs.

Douglas Lapp, Executive Director  
National Science Resources Center, MRC 403  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-4892 / Fax: (202) 786-2028  
<http://www.si.edu/nsrc/confer.htm>

### NSRC Resource Collection

The NSRC maintains a comprehensive and growing collection of effective science teaching resource materials. Housed at the Arts and Industries Building of the Smithsonian Institution, the collection holds more than 5,000 volumes. It is cataloged and accessible through computerized databases that include annotations as well as bibliographic data. NSRC has also produced an annotated guide to elementary science resources, *Resources for Teaching Elementary School Science*, and a companion volume for middle schools, *Resources for Teaching Middle School Science* (National Academy Press, Washington, DC).

Douglas Lapp, Executive Director  
National Science Resources Center, MRC 403  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-4892 / Fax: (202) 786-2028  
<http://www.si.edu/organiza/offices/scires/rress.htm>

### Private Universe Project

This project is developing a six-part nationally broadcast television series to help science teachers address student preconceptions in science. Funded in 1992, the project focuses on grades K-12. The series is derived from work pioneered in Project STAR: Science Teaching through its Astronomical Roots, and is an extension of that project's award-winning video, *A Private Universe*. The project alerts science teachers to problems posed by their students' preconceived ideas and encourages them to devise solutions tailored to students' specific needs.

Nancy Finkelstein  
60 Garden Street, MS 71  
Cambridge, MA 02138  
(617) 496-7687 / Fax: (617) 496-7670

### Professional Development Opportunities for Teachers

Regional workshops and summer institutes are designed to strengthen ties between museums and schools nationwide and to contribute to the improvement of teaching methods and materials. Summer courses for teachers in the Washington, DC, area focus on using the Smithsonian as a resource for teaching and learning.

Sarita Rodriguez  
Smithsonian Office of Education  
Arts and Industries Building, Room 1163, MRC 402  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-3051 / Fax: (202) 357-2116  
<http://educate.si.edu/>

### Project SPICA: Support Program for Instructional Competency in Astronomy

Project SPICA provides astronomy education support to precollege teachers, particularly in grades K-9. The project has prepared some 180 expert teachers in 41 states to provide workshops to other teachers who want to enhance the use of astronomy in their classrooms. SPICA agents may be contacted through the project office. In addition, a manual containing 37 astronomy activities for grades 2-12, *Project SPICA: A Teacher Resource to Enhance Astronomy Education*, is available from Kendall/Hunt Publishing Company.

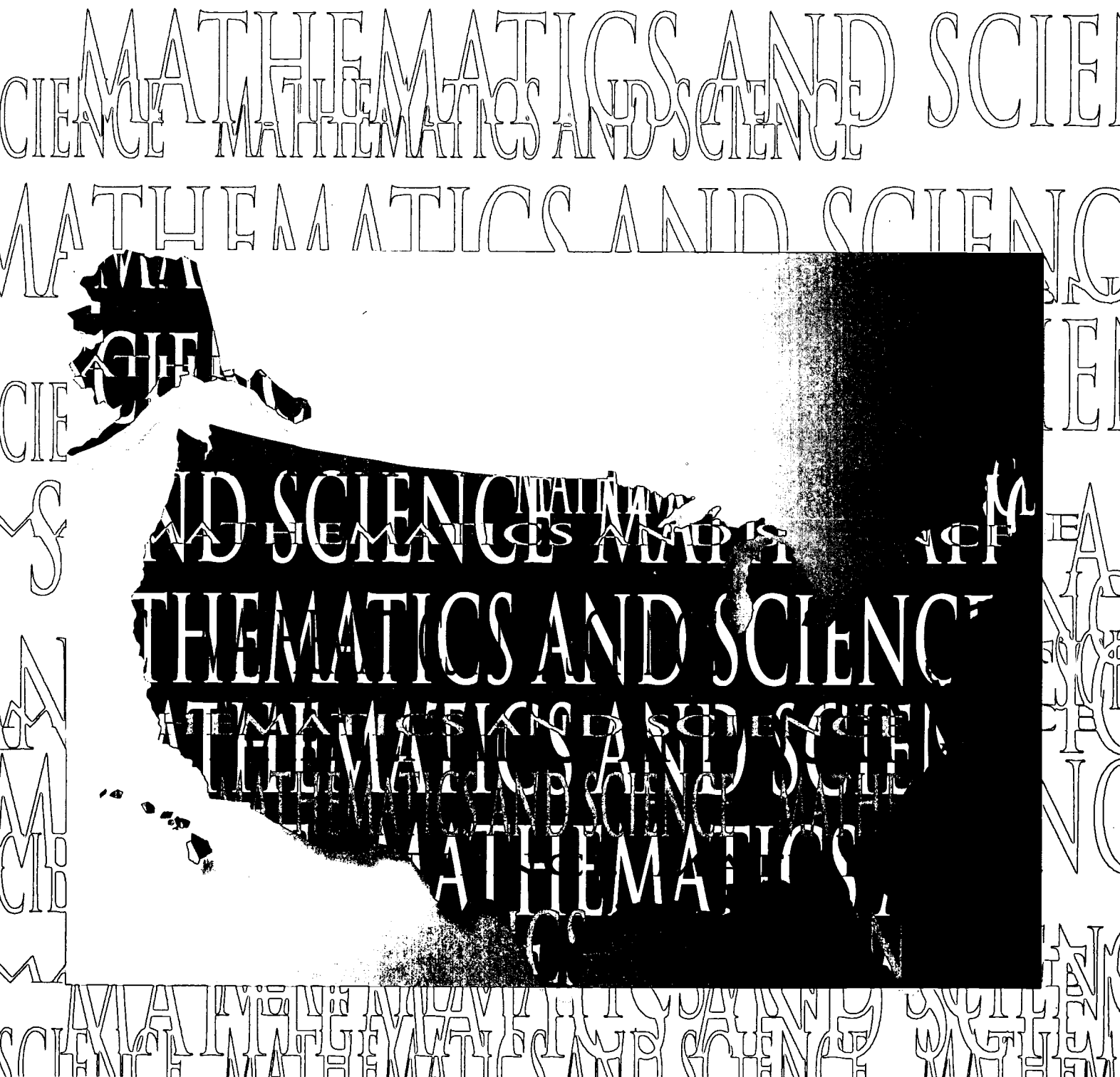
Judith Peritz  
Harvard-Smithsonian Center for Astrophysics  
60 Garden Street, MS71  
Cambridge, MA 02138  
(617) 496-4785 / Fax: (617) 496-5405

### Publications for Teachers

This publications effort brings a broad range of Smithsonian resources into the nation's classrooms and school libraries. Informational publications direct teachers to diverse Smithsonian resources and help educators plan museum visits. Curricular publications complement specific curriculum areas as articulated in the national education standards; each package contains background information and extensive activities. The Internet gives teachers immediate access to electronic versions of Smithsonian educational publications and to information about programs targeted to educators.

Michelle Smith  
Smithsonian Office of Education  
Arts and Industries Building, Room 1163, MRC 402  
Smithsonian Institution  
Washington, DC 20560  
(202) 786-2498 / Fax: (202) 357-2116  
E-mail: [eseem004@sivm.si.edu](mailto:eseem004@sivm.si.edu)  
<http://educate.si.edu/>

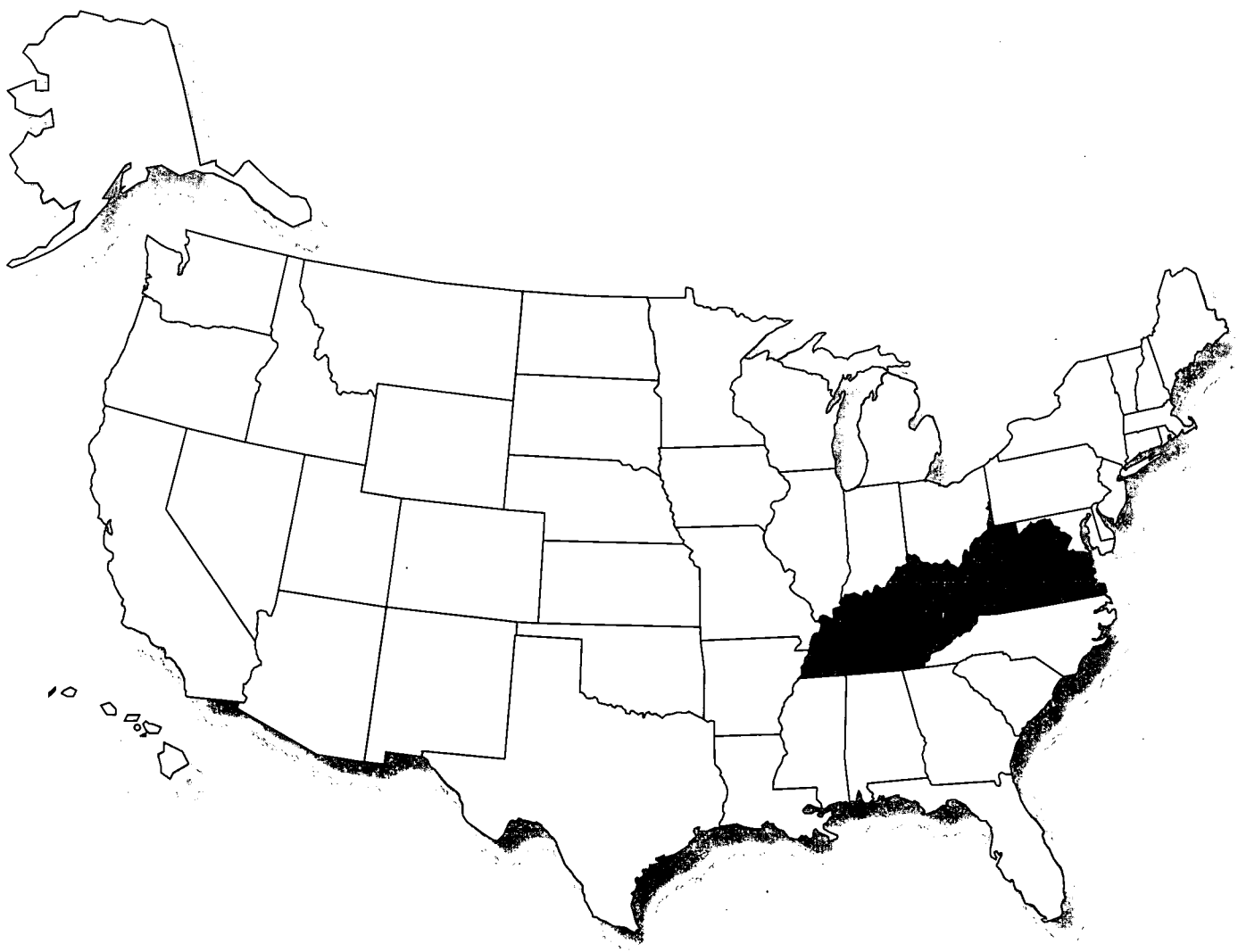
# State Highlights by Region



- ▶ Kentucky
- ▶ Tennessee
- ▶ Virginia
- ▶ West Virginia

# Appalachia Region

▶ **Eisenhower Regional Math/Science  
Consortium at AEL**



# Eisenhower Regional Math/Science Consortium at AEL

# Appalachia Region

**T**he Eisenhower Regional Math/Science Consortium at AEL (Appalachia Educational Laboratory) promotes and supports systemic reform in mathematics and science education in Kentucky, Tennessee, Virginia, and West Virginia. The consortium builds on existing resources and creates partnerships that cut across state boundaries to link public schools, private schools, state and local education agencies, business and industry, science museums, and higher education institutions. Funded by the Eisenhower National Program for Mathematics and Science Education, the consortium is one in a national network of 10 consortia located across the country. The network also includes the Eisenhower National Clearinghouse (ENC) at The Ohio State University.

The consortium's support for systemic reform in mathematics and science education includes teams of trainers in each state who provide free onsite training designed to help align classroom instruction with national standards and state-specific curriculum frameworks.

By working closely with the region's mathematics and science educators, the consortium's full range of services can be tailored to state initiatives. A regional board and four state steering committees help align consortium activities with local needs and with needs common across the region.

The consortium provides:

- **Information** on mathematics and science education reform, exemplary practices, standards-based activities, and ENC.
- **Professional development** for K-12 teachers on the national education standards in mathematics and science, state curriculum frameworks, and instructional technology.
- **Assistance** to state departments of education in developing standards-based curriculum frameworks.
- **Opportunities** for networking and collaboration for mathematics and science education stakeholders in the four-state region.

- **Technical assistance** and instructional materials to schools through projects and programs recommended by state steering committees and state departments of education.
- **Connections** to the National Science Foundation's Appalachian Rural Systemic Initiative, operating in 66 counties across six states.

Equity projects sponsored by the consortium help classroom teachers increase opportunities for all students in the region to attain a higher level of mathematics and science education. Grants of up to \$750 are available each year for projects designed to increase access to mathematics and science for students from traditionally underrepresented groups, including women, students with learning disabilities, students from rural areas, students from racial/ethnic/cultural minorities, students with physical disabilities, and students at risk for academic failure.

Equity projects can be used for various programs. For example, teachers might want to purchase materials to enhance the curriculum, bring scientists and mathematicians from traditionally underrepresented groups into classrooms to develop linkages or mentoring programs for students, provide research experiences for students from traditionally underrepresented groups, or develop school-based programs geared to increasing traditionally underserved students' interest and skills in science and mathematics.

The consortium provides information on professional development opportunities at school sites; a newsletter titled *Charmed Particles*; copies of EDTALK's *What We Know About Mathematics Teaching and Learning* and *What We Know About Science Teaching and Learning*; a proposal-writing guide titled *Increasing Student Access to Mathematics and Science: A Guide for Classroom Equity Projects*; a set of classroom lessons titled *Scope It Out: Standards-Based Microscope Lessons for the Middle School*; and catalogs of AEL products.

**Pamela K. Buckley**  
*Director*

**Janis Augustine**  
*Projects' Coordinator*

**John Hilkert**  
*Executive Assistant*

Eisenhower Regional Math/Science Consortium at AEL  
1700 North Moore Street, Suite 1275  
Arlington, VA 22209  
(800) 624-9120  
E-mail: [aelinfo@ael.org](mailto:aelinfo@ael.org)  
<http://www.ael.org/eisen/>

## Kentucky

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Bill Umscheid, Assistant Extension Director  
for 4-H Youth  
University of Kentucky  
Kentucky CES  
212 Scovell Hall  
Lexington, KY 40546-0064  
(606) 257-5605 / Fax: (606) 257-7180  
E-mail: [bumschei@ca.uky.edu](mailto:bumschei@ca.uky.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Faye Lowe  
Kentucky Farm Bureau  
9201 Bunsen Parkway  
Louisville, KY 40250-0700  
(502) 495-5000 / Fax: (502) 853-4114



Rayetta Boone  
Department of Agriculture  
500 Mero Street, 7th Floor  
Frankfort, KY 40602  
(502) 564-4696 / Fax: (502) 564-6527

## ► Department of Education (ED)

### Appalachia Educational Laboratory, Inc. (AEL)

AEL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John R. Sanders, Executive Director  
Appalachia Educational Laboratory, Inc.  
PO Box 1348, 1031 Quarrier Street  
Charleston, WV 25325  
(304) 347-0400 / Fax: (304) 347-0487  
(800) 344-6646 (inside WV)  
(800) 624-9120 (outside WV)  
<http://www.ael.org/>

### Eisenhower Regional Math/Science Consortium at AEL

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Pam Buckley, Director  
Eisenhower Math/Science  
Consortium at AEL  
1700 North Moore Street, Suite 1275  
Arlington, VA 22209  
(800) 624-9120  
E-mail: [buckley@ael.org](mailto:buckley@ael.org)  
<http://www.ael.org/eisen/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

John C. Drake  
Eisenhower Professional Development  
Program  
Kentucky Department of Education  
Capitol Plaza Tower, 8th Floor  
Frankfort, KY 40601  
(502) 564-3791 / Fax: (502) 564-6721

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for

Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Wendell Cave  
Eisenhower Professional Development  
Program  
Kentucky Council on Higher Education  
1024 Capitol Center Drive, Suite 320  
Frankfort, KY 40601-8204  
(502) 573-1555 / Fax: (502) 573-1535

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: [dholznag@serve.org](mailto:dholznag@serve.org)  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: [Deborah\\_Williams@ed.gov](mailto:Deborah_Williams@ed.gov)

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher

Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: [9LC@ornl.gov](mailto:9LC@ornl.gov)

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush  
Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Cumberland Gap National Historic Park

The story of the first doorway to the West is commemorated at this park, which is located

where the borders of Tennessee, Virginia, and Kentucky meet. In addition to the opportunity to journey back into history and trace the footsteps of notables such as Daniel Boone, the park also offers spectacular vistas. History, biology, and geology can be incorporated into class visits to the park. School teachers are encouraged to make reservations as soon as possible to ensure staff availability.

Carol Borneman, Supervisory Park Ranger  
Cumberland Gap National Historic Park  
PO Box 1848  
Middlesboro, KY 40965-1848  
(606) 248-2817 / Fax: (606) 248-7276

### **Mammoth Cave National Park**

The park offers surface and cave activities that focus on geology and natural history, as well as teacher guides, pre-visit materials, and guided tours. In the Environmental Education program, primary students are introduced to the importance and value of national parks. Intermediate and middle school students learn how the unique karst topography of the Mammoth Cave area affects the surface and subsurface. Subjects such as biology, archaeology, and history can be connected to class curriculum while students investigate the park. One-day teacher workshops are offered several times a year and pre- and post-site visits are encouraged when staff are available.

Sharon Ganci, Education Coordinator  
Mammoth Cave National Park  
Mammoth Cave, KY 42259  
(502) 758-2354 / Fax: (502) 758-2349

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Laura Lang, Project WILD Coordinator  
Kentucky Department of Fish and Wildlife  
Resources, DNR  
#1 Game Farm Road  
Frankfort, KY 40601  
(502) 564-4762 / Fax: (502) 564-6508

## **► Department of Labor (DOL)**

### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Jill K. Day, Staff Assistant  
Office of Training and Reemployment  
Workforce Development Cabinet  
209 St. Clair Street, 4th Floor  
Frankfort, KY 40601  
(502) 564-5360 / Fax: (502) 564-7452

## **► Department of Transportation (DOT)**

### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA

education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Michael Rowland  
Shawnee Aviation High School  
4018 West Market Street  
Louisville, KY 40212  
(502) 473-8689

## **► Environmental Protection Agency (EPA)**

### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education  
Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Rich Nawyn  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

► **National Aeronautics and Space Administration (NASA)**

**NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Virginia Air and Space Center  
600 Settlers Landing Road  
Hampton, VA 23669-4033  
(757) 727-0900, ext. 757

**NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Marchelle Canright, Precollege Officer  
NASA Langley Research Center, MS 400  
Hampton, VA 23681-0001  
(757) 864-3313

**NASA Regional Educator Resource Center**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Murray State University  
Waterfield Library  
Murray, KY 42071-0009  
(502) 762-2850

**Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Kentucky Space Grant Consortium  
Western Kentucky University  
Department of Physics and Astronomy  
Bowling Green, KY 42101-3576  
(502) 745-4156

► **National Science Foundation (NSF)**

**Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation. It also encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Wimberly Royster  
Kentucky Science and Technology Council, Inc.  
200 West Vine Street, Suite 420  
Lexington, KY 40507  
(606) 255-3511, ext. 226  
Fax: (606) 259-0986  
E-mail: royster@pop.uky.edu

► **Department of Education (ED)**

**Appalachia Educational Laboratory, Inc. (AEL)**

AEL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John R. Sanders, Executive Director  
Appalachia Educational Laboratory, Inc.  
PO Box 1348, 1031 Quarrier Street  
Charleston, WV 25325  
(304) 347-0400 / Fax: (304) 347-0487  
(800) 344-6646 (inside WV)  
(800) 624-9120 (outside WV)  
<http://www.ael.org/>

**Eisenhower Regional Math/Science Consortium at AEL**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Pam Buckley, Director  
Eisenhower Math/Science Consortium at AEL  
1700 North Moore Street, Suite 1275  
Arlington, VA 22209  
(800) 624-9120  
E-mail: [buckley@ael.org](mailto:buckley@ael.org)  
<http://www.ael.org/eisen/>

**Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Barbara Adkisson-Suhadolnick, Director,  
Developmental Programs  
Eisenhower Professional Development Program  
Tennessee Department of Education  
Andrew Johnson Tower  
710 James Robertson Parkway  
Nashville, TN 37243-0379  
(615) 532-6297 / Fax: (615) 532-7860

**Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

## Tennessee

► **Department of Agriculture (USDA)**

**4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Martha J. Tolley, Professor and Acting 4-H Club Leader  
University of Tennessee  
PO Box 1071  
Knoxville, TN 37901-1071  
(423) 974-2128 / Fax: (423) 974-7448  
E-mail: [mtolley@utk.edu](mailto:mtolley@utk.edu)

**Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Charles Curtis  
Tennessee Farm Bureau  
PO Box 313  
Columbia, TN 38402-0313  
(615) 388-7872 / Fax: (615) 388-5818

David Ewing, Director  
Legal and Educational Services  
Eisenhower Professional Development  
Program  
Tennessee Higher Education Commission  
404 James Robertson Parkway, Suite 1900  
Nashville, TN 37243-0830  
(615) 532-8017 / Fax: (615) 741-6230

### **Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: dholznag@serve.org  
http://www.serve.org/seir-tec/

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

### **► Department of Energy (DOE)**

### **Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)**

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research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

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Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

### **Oak Ridge Institute for Science and Education**

In addition to school partnership programs, the Oak Ridge Institute for Science and Education provides student internship opportunities, research participation, teacher workshops, and summer programs for students. The Women in Science and Technology Conference provides an opportunity for college women to explore career opportunities in scientific and technical fields by meeting with professional women. Conference activities include outstanding scientists featured as keynote speakers and discussion panel members; a mentoring program; and a college faculty workshop on educational technology. The DOE Tennessee Science Bowl encourages high school students from across the state to excel in math and science and to pursue careers in those fields. Teams of students from Tennessee high schools compete in a rapid-fire question-and-answer format. The winning team represents the state of Tennessee in the National Science Bowl held in the Washington, DC area.

Wayne Stevenson, Assistant Director  
Oak Ridge Institute for Science and  
Education  
Science and Engineering Education  
PO Box 117, MS-36  
Oak Ridge, TN 37831-0117  
(423) 576-3283 / Fax: (423) 241-5219  
E-mail: stevensw@orau.gov  
http://orau.gov/orise.htm

### **Oak Ridge National Laboratory**

The lab offers student science enrichment and teacher professional development both onsite and in schools, with a special focus on computer networking and communications.

Other programs include the following:

- **Adventures in Supercomputing (AiS)** is designed to foster and enhance the participation of diverse populations of high school students in mathematics, science, and computing.
- **The Ecological and Physical Sciences Study Center (EPSSC)** provides inquiry-based, hands-on science and mathematics activities and experiments for K-12 students and teachers. EPSSC instructors, science professionals, and educators deliver programs at DOE's National Environmental Research Park, the ORNL Regional Science Center, the American Museum of Science and Energy, and area classrooms. Currently EPSSC offers more than 30 different programs offered on a fee-for-service basis. EPSSC courses serve to supplement or enrich, not replace, existing science and mathematics curricula.
- **Saturday Academy of Computing and Mathematics (SACAM)** is an enrichment activity for east Tennessee area high school students. The goal is to reinforce the interests of selected outstanding students who already are moving towards math/science/engineering careers and can benefit from the opportunity to work, individually or in a group, with technical mentors through a structured series of research-based learning experiences. Student participants are nominated by teachers and administrators from as many as 15 area high schools. Teachers are encouraged to participate with their students. The program is offered twice (fall and winter) during each school year. Rather, the principal subject matter is modern mathematics and high-performance computing. The approach is one of hands-on involvement with tools used to solve problems across the full range of scientific and technical disciplines.
- **The Teacher Research Participation Program** is designed to improve the quality of precollege education by enhancing the professional competence of science and



mathematics teachers. This is accomplished by involving teachers in national engineering and scientific research programs and by supporting other activities that enable teachers to interact with science and engineering professionals. Through firsthand experiences gained from full-time, eight-week summer appointments, the program provides a better understanding of how scientific knowledge is applied in the laboratory and other technical environments. Participants are assigned to positions in well-established projects and become fully integrated members of the research groups. Applicants must be certified to teach mathematics, science, or computer science, and must have taught full-time for at least one year in either public or private schools serving grades 7–12.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

Barbara G. Summers, Education Program Manager  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, Building 5500A, MS 6366  
Oak Ridge, TN 37831-6366  
(423) 241-3705 / Fax: (423) 241-6776  
E-mail: summersbg@ornl.gov

### Oak Ridge Operations Office

This office provides outreach programs to local precollege schools, conducts environmental education activities, and provides information about regional programs.

Greg Mills, Education Coordinator  
DOE Oak Ridge Operations Office  
ORNL Site Office, ER-111  
Oak Ridge National Laboratory  
Building 4500 North, MS 6269  
PO Box 2008  
Oak Ridge, TN 37831  
(423) 576-0951 / Fax: (423) 574-9275  
E-mail: millsga@ornl.gov

### ► Department of the Interior (DOI)

#### Big South Fork National River

Programs include guided nature walks, environmental camps for high school students, teacher workshops, and Junior Ranger programs.

Division of Interpretation  
Big South Fork National River  
4564 Leatherwood Road  
Oneida, TN 37841  
(931) 879-3625

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Great Smoky Mountains Institute at Tremont

This residential youth program emphasizes exploration and appreciation of the natural and cultural resources of the Great Smoky Mountains National Park. Program offerings include teacher workshops, elder hostels, and summer family and youth camps. Sessions provide environmental education on critical issues in the Smokies. There are roughly 40–50 programs offered each year.

Ken Voorhis, Director  
Great Smoky Mountains Institute at Tremont  
9275 Tremont Road  
Townsend, TN 37882  
(423) 448-6709 / Fax: (423) 448-9250  
E-mail: gsmit@igc.apc.org  
<http://www.nps.gov/grsm/tremont.htm>

### Great Smoky Mountains National Park

Guided walks, lectures, and other activities offered by the Great Smoky Mountains National Park promote environmental education.

Other programs include the following:

- **The Junior Ranger Program** for park visitors ages 5–12 teaches about natural and cultural values of the Great Smoky Mountains National Park. The program includes an activity booklet and ranger-led activities. Upon completion of the booklet and attendance at programs, children are awarded a Junior Ranger badge.
- **Parks as Classrooms: Smoky Mountain Classrooms** provides an interdisciplinary learning experience for students in grades K–8.

Karen Ballantine, Park Ranger  
Great Smoky Mountains National Park  
107 Park Headquarters Road  
Gatlinburg, TN 37738  
(423) 436-1257 / Fax: (423) 436-1220

### Obed Wild and Scenic River

Programs include guided nature tours and other environmental education activities.

Division of Interpretation  
Obed Wild and Scenic River  
Wartburg, TN 37887  
(615) 346-6294

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K–12.

Deborah Patton, Project WILD Coordinator  
Tennessee Wildlife Resources  
PO Box 40747  
Nashville, TN 37204  
(615) 781-6500 / Fax: (615) 741-4606

Karen Hanna, Project WILD Coordinator  
Tennessee Department of Education  
Gateway Plaza, 8th Floor  
710 James Robertson Parkway  
Nashville, TN 37243-0379  
(615) 532-6249 / Fax: (615) 741-6236

### Smoky Mountain Field School

The Smoky Mountain Field School offers more than 65 hikes, adventures, and workshops in the Great Smoky Mountains National Park. These classes are designed to provide an opportunity to enhance appreciation, enjoyment, and understanding of the Smokies and the outdoors. Many courses are taught by University of Tennessee professors and emphasize field exploration.

Linda Kallstrom, Year-round Coordinator  
UT Smoky Mountain Field School  
105 Conference Center Building  
Knoxville, TN 37996-4110  
(423) 974-0150 / Fax: (423) 974-0264  
E-mail: FieldSchool@gateway.ce.utk.edu  
<http://www.ce.utk.edu/smoky/>

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Pam Hewlett Inman, Assistant Commissioner  
Tennessee Department of Labor  
Employment and Training Division  
710 James Robertson Parkway, 4th Floor  
Nashville, TN 37243-0658  
(615) 741-3031 / Fax: (615) 741-3003



## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

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Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Wallace R. Maples, Chairman  
Aviation Education Resource Center  
Middle Tennessee State University  
Aerospace Department  
East Main Street, PO Box 67, MTSU  
Murfreesboro, TN 37132  
(615) 898-2788

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education  
Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### The President's Environmental Youth Awards (PEYA) Program

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EPA Region 4  
Rich Nawyn  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

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U.S. Space and Rocket Center  
NASA Educator Resource Center for  
Marshall Space Flight Center  
One Tranquility Base  
Huntsville, AL 35758  
(205) 544-5812

### NASA Field Centers

Each field center has an educational programs officer who is responsible for pre-college education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jim Pruitt, Director, Education Programs  
Mail Code CL01  
NASA Marshall Space Flight Center  
Huntsville, AL 35812-0001  
(205) 544-8800

### NASA Regional Educator Resource Center

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
University of Tennessee at Martin  
Center for Excellence in Mathematics and  
Science Education  
Martin, TN 38238-5029  
(901) 587-7907

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Tennessee Space Grant Consortium  
Vanderbilt University  
Department of Mechanical Engineering  
Box 1617, Station B  
Nashville, TN 37235  
(615) 322-2950

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Wimberly Royster  
Kentucky Science and Technology Council, Inc.  
200 West Vine Street, Suite 420  
Lexington, KY 40507  
(606) 255-3511, ext. 226  
Fax: (606) 259-0986  
E-mail: royster@pop.uky.edu

### Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Marieta Harris  
Memphis City Schools  
2385 Central Avenue  
Memphis, TN 38104  
(901) 722-4552 / Fax: (901) 722-4557

John Dooley, Assistant Director, 4-H Youth VPI and State University  
107 Hutcheson Hall  
Blacksburg, VA 24061-0419  
(540) 231-6371 / Fax: (540) 231-7866  
E-mail: jdooley@vtvm1.cc.vt.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Michele Awad  
Virginia Farm Bureau Federation  
PO Box 27552  
Richmond, VA 23261  
(804) 784-1234

### Career Enrichment Program

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, or seniors in the mid-Atlantic states who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

## National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Available in six regions, the courses are designed to enhance skills in science teaching.

Bill Hall  
Delaware Sea Grant  
700 Pilottown Road  
Lewes, DE 19958  
(302) 645-4253 / Fax: (302) 645-4007

## ► Department of Defense (DoD)

### Naval Base, Norfolk

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations in Virginia (excluding National Capital Region), West Virginia, Maryland, Delaware, and Pennsylvania.

COMNAVBASE, Norfolk VA  
Commander, Naval Base Norfolk  
1530 Gilbert Street, Suite 200  
Code N1P  
Norfolk, VA 23511-2797  
(757) 322-2826

### Science and Engineering Apprentice Program

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near the participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer. The following are participating organizations in the state of Virginia:

Margie Beverly  
Naval Surface Warfare Center (NSWC-D)  
Code P30, Route 206  
Dahlgren, VA 22448  
(540) 653-8702

John Cline  
Army Research Laboratory Vehicle Structures Directorate (AVSD)  
NASA Langley Research Center  
Hampton, VA 23681  
(804) 864-3966

Other participating organizations in Virginia include: Army Research Institute (ARI), Alexandria, Virginia; Army Test, Measurement and Diagnostic Equipment Activity (TMDE-V), Ft. Belvoir, Virginia; Night Vision and Electronic Sensors Directorate

# Virginia

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

## ► Department of Commerce (DOC)

### Chesapeake Bay National Estuarine Research Reserve (VA)

Estuarine ecology programs are offered for all grade levels at the reserve. Reservations are required.

David Niebuhr, Education Coordinator  
Chesapeake Bay National Estuarine Research Reserve (VA)  
Virginia Institute of Marine Science  
Route 1308, PO Box 1346  
Gloucester Point, VA 23062  
(804) 642-7135 / Fax: (804) 642-7120  
E-mail: niebuhr@vims.edu

(NVESD), Ft. Belvoir, Virginia; and Topographic Engineering Center (TEC), Ft. Belvoir, Virginia.

For information on these programs, contact:

Marylin Krupsaw  
GWU/SEAS  
Science and Engineering Apprentice Program  
707 22nd Street NW  
Washington, DC 20052  
(202) 994-2234

## ► Department of Education (ED)

### Appalachia Educational Laboratory, Inc. (AEL)

AEL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John R. Sanders, Executive Director  
Appalachia Educational Laboratory, Inc.  
PO Box 1348, 1031 Quarrier Street  
Charleston, WV 25325  
(304) 347-0400 / Fax: (304) 347-0487  
(800) 344-6646 (inside WV)  
(800) 624-9120 (outside WV)  
<http://www.ael.org/>

### Eisenhower Regional Math/Science Consortium at AEL

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Pam Buckley, Director  
Eisenhower Math/Science Consortium at AEL  
1700 North Moore Street, Suite 1275  
Arlington, VA 22209  
(800) 624-9120 / Fax: (703) 276-0266  
E-mail: [buckley@ael.org](mailto:buckley@ael.org)  
<http://www.ael.org/eisen/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Marcia D. Perry  
Eisenhower Professional Development Program  
Virginia Department of Education  
PO Box 2120  
Richmond, VA 23218-2120  
(804) 786-7076 / Fax: (804) 786-1703

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Laura C. Ford  
Eisenhower Professional Development Program  
State Council of Higher Education for Virginia  
James Monroe Building, 9th Floor  
101 North 14th Street  
Richmond, VA 23219-3684  
(804) 225-4416 / Fax: (804) 225-2604

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: [dholznag@serve.org](mailto:dholznag@serve.org)  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: [Deborah\\_Williams@ed.gov](mailto:Deborah_Williams@ed.gov)

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided

in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: [9LC@ornl.gov](mailto:9LC@ornl.gov)

### Thomas Jefferson National Accelerator Facility (Jefferson Lab)

Jefferson Lab welcomes year-round field trips for guided tours and hands-on math and science activities. In addition to school-year programs to motivate students and summer programs to provide research experiences for undergraduate students and teachers, Jefferson Lab shares curriculum materials for grades 5-8, loans videotapes of the monthly *Science Series*, and partners with school districts to promote systemic improvement in precollege math and science education.

Janet H. Tyler, Science Education Manager  
Thomas Jefferson National Accelerator Facility  
12000 Jefferson Avenue  
Newport News, VA 23606  
(757) 269-7164 / Fax: (757) 269-5065  
E-mail: [tyler@cebaf.org](mailto:tyler@cebaf.org)  
<http://www.jlab.org/>

## ► Department of the Interior (DOI)

### Back Bay National Wildlife Refuge

Teacher workshops introduce teachers to environmental education facilities, equipment, and activities available at the refuge. Teachers conduct environmental activities that focus on beach, marsh, and pond habitats found in the refuge. The workshops prepare teachers for field trips with students.

Dean Werner, Park Ranger  
Back Bay NWR  
4005 Sandpiper Road  
Virginia Beach, VA 23456  
(804) 721-2412 / Fax: (804) 721-6141

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Chincoteague National Wildlife Refuge

Programs include guided walks, environmental education activities, and teacher workshops. Workshop participants receive teacher guides. The refuge also conducts offsite outreach programs to elder hostels, youth groups, and other interested organizations.

The Non-Guided Environmental Education program provides materials to groups that request fee waivers for environmental education programs. The Spring Environmental Education program allows students to study endangered species, biodiversity, and migration through pre-visit, onsite, and post-visit activities.

John D. Schroer, Refuge Manager  
Outdoor Recreation Planner  
Chincoteague NWR  
Box 62, Maddox Boulevard  
Chincoteague, VA 23336  
(804) 336-6122 / Fax: (804) 336-5273  
E-mail: r5rw\_chnwr@mail.fws.gov

### Kids' Fishing Day

This annual program includes Pathways to Fishing, a national educational activity that focuses on ecology, fishing lessons, and fishing ethics. Participants also have hands-on fishing experience with local fishermen and play a recreational casting game.

Geoff Walsh, Wildlife Biologist  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1668 / Fax: (703) 440-1599

### Mason Neck National Wildlife Refuge

The refuge offers environmental education workshops for teachers on- and offsite. In the Field Studies program, classes or groups can study successional grasslands and forests, wetlands, and wildlife management programs during field trips after teachers or group leaders have attended a pre-trip orientation tour. Staff may accompany adult or special needs groups for detailed discussion of management programs or to assist with access.

Teacher Workshops focus on nationally known activity guides (Project WILD, Aquatic Project WILD, Project Learning Tree, Wonders of Wetlands) or customized programs to meet teachers' needs for presenting environmental concepts or fulfilling the youth program curriculum.

Yvonne Schultz, Outdoor Recreation Planner  
Mason Neck NWR  
14344 Jeff Davis Highway  
Woodbridge, VA 22191  
(703) 690-1297 / Fax: (703) 690-8495

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### Partnerships in Education

Partnerships are established by the United States Geological Survey (USGS) management and school administration to enhance science and math education. The programs provide feasible USGS resources, enrich school curricula, foster mentorships, and build student esteem. Partnerships are based on the proximity to USGS site and the availability of USGS staff.

Susan C. Wells, Bureau Volunteer Coordinator  
215 National Center  
Reston, VA 22092  
(703) 648-7452 / Fax: (703) 648-4132  
E-mail: swells@usgs.gov

### Prince William Forest Park

Food Chains, Food Webs, and the Pyramid of Life are all ways of describing the flow of energy in nature. In this program, the student learns about photosynthesis, herbivores, and carnivores, as well as how the system interrelates with the food chain.

Other programs include:

- **The Forest Succession Walk** teaches students to name the five different layers of a mature forest, describe three stages of forest succession, and understand plant and animal communities.
- **Geology of Prince William Forest Park** is a program that teaches students about various rocks and minerals in the park, as well as general concepts of geology and the processes that help form the park.
- **Hug a Tree** introduces tree parts and names and how trees benefit humans.
- **The Mining and Minerals** program teaches students about iron pyrite and sulfur and their importance. Other topics include how to identify a mining site, how to extract these minerals from the ground, and what the effects of mining are on the environment.
- **Seeds: Nature's Hitch Hikers and Parachutes** helps students identify some plant seeds and describe the ways in which they propagate life.
- **Using the Five Senses** teaches students about their five senses and the part of the body used for each sense. Students also learn how animals use their senses to survive.
- **Water Cycles, Watersheds, and Stream Ecology** helps students learn about the importance of watersheds and water cycles and why they should be protected. They learn about pollution in streams as well as about the parameters of streams and how they influence each other.

Art Webster, Education Coordinator  
Prince William Forest Park  
18100 Park Headquarters Road  
Triangle, VA 22172  
(703) 221-7181 / Fax: (703) 221-3258  
E-mail: art\_webster@nps.gov



## Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Suzie Gilley, Project WILD Coordinator  
Virginia Department of Game and Inland Fisheries  
4010 West Broad, PO Box 11104  
Richmond, VA 23230  
(804) 367-0188 / Fax: (804) 367-9147

## Shenandoah National Park

Parks As Classrooms programs target elementary students from grades 2-6. Programs are held in the park and are available during the spring and fall seasons. *Integrated Earth Science in Shenandoah National Park*, a new curriculum for middle school and high school Earth science classes, will be available in 1999. All park programs have been designed to meet the *Virginia Standards of Learning*. Teacher workshops and inservice training are offered for implementing these programs.

Timothy Taglauer, Education and Youth Service Program Manager  
Shenandoah National Park  
3655 U.S. Hwy 211 East  
Luray, VA 22835  
Attn: Education Office  
(540) 999-3488 / Fax: (540) 999-3686  
E-mail: SHEN\_Education@nps.gov

## U.S. Fish and Wildlife Service

A Home for Pearl is a program consisting of an instructional videotape with an accompanying teacher guide designed to teach elementary school children about wildlife habitats. Wild About Life is a dramatized documentary about four teenagers who discover the value of the variety of life on Earth—from wolves returning to Yellowstone to snails thriving in a restored wetland.

Miriam Westervelt, Environmental Education Specialist  
U.S. Fish and Wildlife Service  
National Conservation Training Center  
Route 1, Box 166, Shepherd Grade Road  
Shepherdstown, WV 25443  
(304) 876-7497

## U.S. Geological Survey

The programs for students and teachers include field trips, workshops, volunteer intern positions, mentoring, shadowing, science fair judging, career fair presentations, and classroom visits. These programs are designed to present scientific content and hands-on experiences in relevant science. The focus is on teacher training and enhancement as the best way to reach more students. Programs address issues in current science edu-

cation reform and the content areas of local/regional curricula. Programs are regional or local in nature and are advertised through local school systems or teacher organizations.

Teacher Resource Centers (GEO-Center, Earth Science Education Collection) provide a comprehensive, current collection of Earth science education resources to the educational community. Educational materials—including books, videos, activities, maps, posters, models, and hands-on items—are available for loan to K-12 teachers and other educators involved in the teaching of the geosciences, including hydrology, meteorology, cartography, astronomy, and Earth science.

USGS Lifelong Learning/Education Committee  
U.S. Geological Survey  
119 National Center  
Reston, VA 22092

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Ann Y. McGee, Executive Director  
Governor's Employment and Training Department  
Theater Row Building, 9th Floor  
730 East Broad Street  
Richmond, VA 23219  
(804) 786-2315 / Fax: (804) 786-2340

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by

the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Betty P. Wilson  
Aviation Education Resource Center  
Virginia Aviation Museum  
5701 Huntsman Road  
Sandston, VA 23150-1946  
(804) 225-3783

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.



Bonnie Smith & Nan Ides, Environmental Education Coordinators  
Environmental Protection Agency  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 / Fax: (215) 566-5102

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 3  
Nan Ides and Larry Brown  
841 Chestnut Street.(3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 or 5527 / Fax: (215) 566-5104

### ► National Aeronautics and Space Administration (NASA)

#### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Virginia Air and Space Center  
600 Settlers Landing Road  
Hampton, VA 23669-4033  
(757) 727-0900, ext. 757

NASA Education Complex-Visitor Center  
Wallops Flight Facility  
Building J-17  
Wallops Island, VA 23337  
(757) 824-2298

#### NASA Field Centers

Each field center has an educational programs officer who is responsible for precol-

lege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Marchelle Canright, Precollege Officer  
NASA Langley Research Center, MS 400  
Hampton, VA 23681-0001  
(757) 864-3313

Keith Koehler  
Public Affairs Office  
Wallops Flight Facility  
Wallops Island, VA 23337  
(757) 824-1579

#### NASA Regional Educator Resource Center

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Radford University  
NASA Regional Educator Resource Center  
PO Box 6999, Walker Hall  
Radford, VA 24142  
(540) 831-6284

#### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Virginia Space Grant Consortium  
Old Dominion University  
2713-D Magruder Boulevard  
Peninsula Center  
Hampton, VA 23666  
(757) 865-0726

### ► National Science Foundation (NSF)

#### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions,

teachers, students, and other key players across rural distances.

Wimberly Royster  
Kentucky Science and Technology Council, Inc.  
200 West Vine Street, Suite 420  
Lexington, KY 40507  
(606) 255-3511, ext. 226  
Fax: (606) 259-0986  
E-mail: royster@pop.uky.edu

## West Virginia

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Elaine Bowen, Division Director  
West Virginia University  
PO Box 6031, 619 Knapp Hall  
Morgantown, WV 26506-6031  
(304) 293-2694 / Fax: (304) 293-7599  
E-mail: ebowen2@wvu.edu

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each State manages its own programs, with assistance from agribusiness, educational institutions, and government.

William Aiken  
West Virginia Farm Bureau  
1 Red Rock Road  
Buckhannon, WV 26201  
(304) 472-2080 / Fax: (304) 472-6554

#### Career Enrichment Program

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Participants must be high school sophomores, juniors, or seniors in the mid-Atlantic states who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

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USDA-ARS  
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Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
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(800) 344-6646 (inside WV)  
(800) 624-9120 (outside WV)  
<http://www.ael.org/>

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Pam Buckley, Director  
Eisenhower Math/Science  
Consortium at AEL  
1700 North Moore Street, Suite 1275  
Arlington, VA 22209  
(800) 624-9120 / Fax: (703) 276-0266  
E-mail: [buckley@ael.org](mailto:buckley@ael.org)  
<http://www.ael.org/eisen/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

David M. Porterfield  
Eisenhower Professional Development  
Program  
West Virginia Department of Education  
East Building 6, Room 330  
1900 Kanawha Boulevard  
Charleston, WV 25305  
(304) 558-7805 / Fax: (304) 558-0459

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Mark Stotler  
Eisenhower Professional Development  
Program  
State College and University System of  
West Virginia  
Charleston, WV 25112  
(304) 558-0262 / Fax: (304) 558-1646

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

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Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: [dholznag@serve.org](mailto:dholznag@serve.org)  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: [Deborah\\_Williams@ed.gov](mailto:Deborah_Williams@ed.gov)

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

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summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

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Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: [9LC@ornl.gov](mailto:9LC@ornl.gov)

### Federal Energy Technology Center

This center conducts research on fossil energy, clean coal technology, and environmental protection.

David Wildman, Senior Management  
Technical Advisor  
Federal Energy Technology Center  
PO Box 880  
Morgantown, WV 26507-0880  
(412) 892-4913 / Fax: (412) 892-4152  
E-mail: [wildman@fetc.doe.gov](mailto:wildman@fetc.doe.gov)

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Harpers Ferry National Historic Park

The Marsh Walk program explores an often-misunderstood natural resource, the wetland.

Marsha Starkey, Education Specialist  
Harpers Ferry NHP  
PO Box 65  
Harpers Ferry, WV 25425  
(304) 535-6748 / Fax: (304) 535-6749

### New River Gorge National River

Programs are requested by teachers and other youth group leaders from a list of 11 offsite programs or 10 in-park programs offered at six locations. Each program is designed to offer a hands-on experience that complements state learning outcomes and to promote a sense of responsibility for protecting the park and the environment as a whole. Programs include guided walks and talks concerning the history and ecology of the New River Gorge National River. A teacher packet is available.

In the park's curriculum-based Environmental Education Program, a park ranger visits each K-5 classroom in participating schools in both the fall and spring to present a one-hour program of activities centering on a grade-specific environmental or cultural theme.

Warren Snyder, Chief  
Interpretation and Visitor Services  
New River Gorge National River  
PO Box 246  
Glen Jean, WV 25846  
(304) 465-0508 / Fax: (304) 465-0591

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Art Shomo, Project WILD Coordinator  
Division of Natural Resources  
1900 Kanawha Boulevard, East  
Charleston, WV 25305  
(304) 558-2771 / Fax: (304) 558-3147

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

William R. Vieweg, Commissioner  
West Virginia Bureau of Employment Programs  
112 California Avenue, Room 610  
Charleston, WV 25305-0112  
(304) 558-2630 / Fax: (304) 558-2992

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

► **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

► **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

► **National Congress on Aviation and Space Education** is sponsored annually by the

FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Ronald Ohl, President  
Aviation Education Resource Center  
Salem-Teikyo University  
223 West Main Street  
Salem, WV 26426  
(304) 782-5234

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Bonnie Smith and Nan Ides, Environmental Education Coordinators  
Environmental Protection Agency  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 / Fax: (215) 566-5102

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the

regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 3  
Nan Ides and Larry Brown  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 or 5527 / Fax: (212) 566-5104

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Virginia Air and Space Center  
600 Settlers Landing Road  
Hampton, VA 23669-4033  
(757) 727-0900, ext. 757

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Marchelle Canright, Precollege Officer  
NASA Langley Research Center, MS 400  
Hampton, VA 23681-0001  
(757) 864-3313

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Educator Resource Center  
University of Charleston  
125 Riggleman Hall  
2300 MacCorkle Avenue, SE  
Charleston, WV 25304  
(304) 357-4773

NASA Regional Educator Resource Center  
Wheeling Jesuit University  
316 Washington Avenue  
Wheeling, WV 26003  
(304) 243-2401

NASA Fairmont IVV  
100 University Drive  
Fairmont, WV 26554  
(304) 367-8216

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

West Virginia Space Grant Consortium  
West Virginia University  
Engineering Research Building, Room 108A  
Morgantown, WV 26506  
(304) 293-4099, ext. 672

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

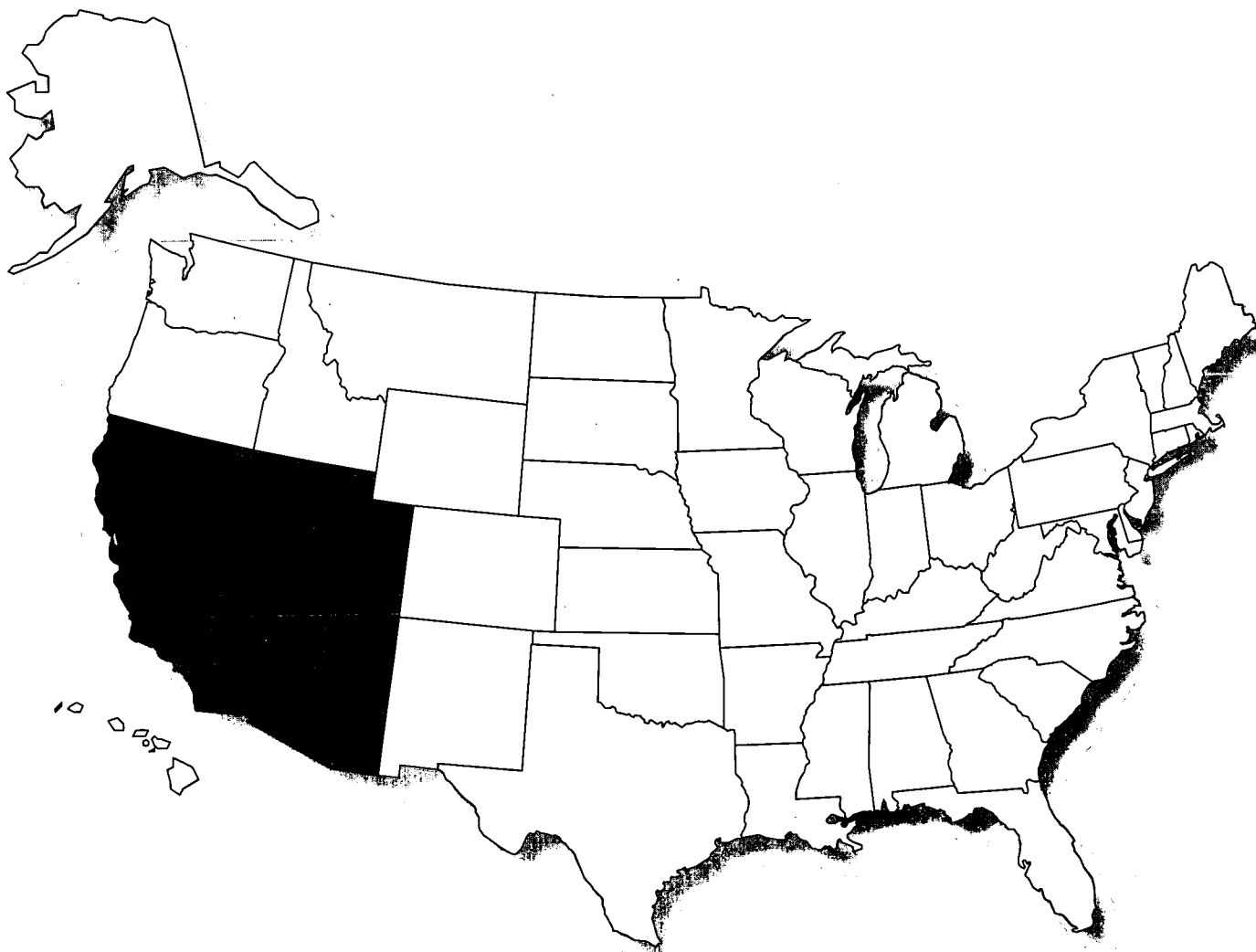
This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Wimberly Royster  
Kentucky Science and Technology Council, Inc.  
200 West Vine Street, Suite 420  
Lexington, KY 40507  
(606) 255-3511, ext. 226  
Fax: (606) 259-0986  
E-mail: royster@pop.uky.edu

- ▶ Arizona
- ▶ California
- ▶ Nevada
- ▶ Utah

# Far West Region

▶ **WestEd Eisenhower Regional Consortium  
for Science and Mathematics Education**





**T**he WestEd Eisenhower Regional Consortium for Science and Mathematics Education (WERC), a program of the WestEd Regional Educational Laboratory, has served the Far West region since October, 1992. WERC is a member of the National Network of Eisenhower Regional Consortia and the Eisenhower National Clearinghouse for Mathematics and Science Education. The mission of this network is to serve as a coordinated field-based national infrastructure for systemic development and dissemination, with an emphasis on underserved and under-represented populations.

Each of the 10 regional consortia serves the states within its geographical region to promote systemic reform in science and mathematics education. Systemic reform aims to address the various factors that contribute to the current condition of science and mathematics education. On a state level, this includes curriculum frameworks, grade-level assessments, and teacher preservice and inservice programs. WestEd works with states to develop world-class standards, to help align curriculum frameworks with those standards, and to match statewide assessment methods with all the standards and frameworks.

## Arizona

Consortium staff have worked with the Arizona Department of Education to develop a curriculum alignment program to assist schools in meeting the goals of the Arizona Essential Skills in mathematics and science. Consortium staff also helped design and implement the summer Arizona Academy for Systemic Reform of Mathematics and Science and the subsequent Journey Schools Program. WERC staff also provide technical assistance to Arizona systemic reform efforts such as the Phoenix area Urban Systemic Initiative and the Arizona Coalition members of the area's UCAN Rural Systemic Initiative. Technical assistance for the Urban Systemic Initiative has had a focus on teacher action research projects and is developing a new focus on telecommunications.

## California

California was the only state in WestEd's region to receive funding from the National Science Foundation's statewide Systemic Initiative (SSI).

WERC collaborated with the state's SSI to help coordinate science education efforts throughout the state. Together they established the California Science Education Advisory Committee (CSEAC), which led the effort to develop *California Challenge Science Education Standards*. This statewide effort used electronic communications to assist in the development, review, and dissemination of the new standards. Another major CSEAC initiative focused on the implementation of science performance assessments statewide. In the spring of 1996, more than 20,000 students engaged in performance tasks as part of this initiative.

The Science Education Academy of the Bay Area (SEABA) provides an example of the networking and collaboration model for enhanced systemic reform. Charter members of SEABA include 10 county offices of education, four University of California campuses, the Lawrence Hall of Science, four California State University campuses, WestEd, the California Department of Education, the Exploratorium, the California Academy of Sciences, Public Broadcasting Station KQED, and four U.S. Department of Energy laboratories. A SEABA goal from its inception has been the production and dissemination of a "one-stop shopping catalog" of greater Bay Area programs and resources. This electronic catalog provides accurate up-to-date information about science education resources and continuing education opportunities available to educators in the greater Bay Area. Teachers and resource providers can search the catalog by organization name, subject area, type of activity, date range, geographic location, and other search criteria. A companion journal, printed in magazine format, provides teachers with an overview of Bay Area professional development activities, highlights selected SEABA activities, encourages teachers to continue their education in science, and helps them use the electronic catalog.

## Nevada

Work at the state level has focused on building an electronic network called the Nevada Public School Network. This telecommunications network enables K-12 teachers to directly access the Internet. WestEd has provided necessary funds for the distributed file servers needed to operate the network and facilitate

the organization and functioning of a statewide task force to make and implement both short-term and long-term plans. Currently, WERC efforts in Nevada are focusing on the development of a new *Nevada Science Framework* that embodies content and performance standards. In addition, WERC staff provide technical assistance in a variety of professional development settings supporting mathematics and science education.

## Utah

Work in Utah focuses on revising and implementing the science framework. Revision of the core curriculum initially focused on K-6 and expanded to grades 7-12. WERC participated in writing and revising the new core, integrating authentic assessment instruments aligned with the core content and philosophy, piloting the use of the core in selected schools, and disseminating the revised core to a much wider audience in Utah. After the Utah Board of Education adopted both revised cores, efforts have focused on supporting professional development to assist teachers and schools in implementing the new ways of teaching science at the elementary and secondary levels. A key philosophical underpinning of the science core revisions is a departure from instruction based on isolated facts toward an integrated instructional program that highlights the processes of science and the big ideas in science and their connections. The revised secondary science core includes a new ninth grade Earth Systems Science course. WERC staff are assisting Utah educators in developing helpful resources for teachers and students, especially a site on the World Wide Web specifically geared to supporting this course.

## Consortium Services

The regional consortia have a special role in identifying and disseminating exemplary curricular materials, teaching methods, teacher training programs, and assessment tools. WERC helps identify exemplary materials developed within its region to be disseminated by the consortium and by the Eisenhower National Clearinghouse (ENC). In addition, WERC plays a central role in the dissemination of information from ENC to schools and teachers in its four states. WERC, in collaboration with ENC, has set up a Demonstration

Site in the California Academy of Sciences located in San Francisco's Golden Gate Park. This collaboration is now being extended through the establishment of one or more ENC Access Centers in each state.

At the local level, the consortium provides technical assistance that teaches classroom teachers, administrators, and other educators to adapt and use exemplary instructional materials, teaching methods, curricula, and assessment tools. Since the WestEd Eisenhower Regional Consortium has a limited budget to serve a very large area in terms of both population and geography, it is focusing its training efforts on working with existing staff development networks. The consortium's training and information services aim to facilitate the efforts of the many agencies that themselves reach out into all the schools in the region.

WestEd provides significant resources and assistance with respect to the uses of technology to support improvements in mathematics and science education. The development, printing, and distribution of the acclaimed book *Tales from the Electronic Frontier* illustrate WERC's approach to the uses of technology to support education reform. *Tales* features nine stories of how practicing teachers use the Internet for the active learning of mathematics and science. Each story describes challenging issues that arise in instructional settings. In addition, *Tales* provides valuable resources, tips, and ideas to help both Internet novices and those with more experience.

The WestEd Governing Board oversees the activities of the WestEd Eisenhower Regional Consortium. This board has 33 active members from all four states, including Chief State School Officers, local school administrators, representatives from higher education, county superintendents of schools, representatives from state offices of education, representatives from private schools, and members of the business community.

**Art Sussman**  
*WERC Co-Director*

**Steve Schneider**  
*WERC Co-Director*

**Tania Madfes**  
*Director, Science Education Academy  
of the Bay Area*

**Sharon Nelson-Barber**  
*Equity, Evaluation Specialist*

**Jerome Shaw**  
*Science Specialist*

**Ann Muench**  
*Mathematics Specialist*

**Richard Wenn**  
*Communications Specialist*

**Libby Rognier**  
*Research Associate*

**Mayumi Shinohara**  
*Research Associate*

**Kirsten Daehler**  
*Research Associate*

**Roberto Carlos**  
*Research Assistant*

**Billy Trimble**  
*Research Assistant*

**Sally King**  
*Administrative Assistant*

WestEd Eisenhower Regional Consortium for  
Science and Mathematics Education  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 241-2730 / Fax: (415) 241-2746  
<http://www.wested.org/werc/>

## Arizona

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

William Peterson, Assistant Director  
Arizona 4-H Youth Development  
University of Arizona  
Forbes 315  
Tucson, AZ 85719  
(602) 621-7205 / Fax: (602) 621-1314  
E-mail: [bpeters@ccit.arizona.edu](mailto:bpeters@ccit.arizona.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Deborah Flowers  
3401 East Elwood Street  
Phoenix, AZ 85040-1625  
(602) 470-0088 / Fax: (602) 470-0178

### ► Department of Defense (DoD)

#### Naval Base, San Diego

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout California, Arizona, and Nevada.

Fred Larson  
COMNAVBASE, San Diego CA  
Commander, Naval Base (N21)  
937 North Harbor Drive  
San Diego, CA 92132-0058  
(619) 532-1514

### ► Department of Education (ED)

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Sharon Bolster, State Coordinator  
Eisenhower Professional Development  
Program  
Arizona Department of Education  
1535 West Jefferson Street  
Phoenix, AZ 85007  
(602) 542-3053 / Fax: (602) 542-3100

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Thomas Wickenden  
Eisenhower Professional Development  
Program  
Arizona Board of Regents  
2020 North Central Avenue, Suite 230  
Phoenix, AZ 85004  
(602) 229-2560 / Fax: (602) 229-2555

#### Pacific and Southwest Regional Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology

to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: clmer@csulb.edu  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

### **WestEd Eisenhower Regional Consortium for Science and Mathematics Education**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Art Sussman and Steve Schneider, Co-Directors  
WestEd Eisenhower Regional Consortium for Science and Mathematics Education  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 241-2730 / Fax: (415) 241-2746  
<http://www.wested.org/werc/>

### **WestEd Regional Educational Laboratory**

WestEd identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Glen H. Harvey, Executive Director  
WestEd Regional Educational Laboratory  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 565-3000 / Fax: (415) 565-3012  
E-mail: tross@wested.org  
<http://www.wested.org/>

## **► Department of Energy (DOE)**

### **Western Area Power Administration (WAPA)**

WAPA conducts the Regional Science Bowl, an academic competition sponsored by DOE and the community. Held each February, it encourages the study of science and mathematics and the pursuit of related careers. The regional winner advances to the national competition, held each spring in Washington, DC.

John Rynerson  
Western Area Power Administration—Phoenix  
Desert Southwest Regional Office  
PO Box 6457  
Phoenix, AZ 85009  
(602) 352-2662 or 2521 / Fax: (602) 352-2630  
E-mail: rynerson@wapa.gov

## **► Department of the Interior (DOI)**

### **Bureau of Land Management State Office**

This office provides information about educational programs, materials, and local land-management issues. Information is also available on facilities such as the San Pedro Riparian National Conservation Area.

Dorothea Boothe, Education Coordinator  
Office of External Affairs  
Bureau of Land Management  
222 North Central Avenue  
PO Box 16563  
Phoenix, AZ 85004  
(602) 417-9219 / Fax: (602) 417-9424

### **Chiricahua National Monument**

The program What's a Chiricahua? introduces students to the many unique animals found in the monument.

Suzanne Moody, Environmental Education Coordinator  
Chiricahua National Monument  
Dos Cabezas Route  
Box 6500  
Willcox, AZ 85643  
(602) 824-3560 / Fax: (602) 824-3421

### **Dankworth Village Cultural Outdoor Classroom**

This program consists of classroom and field site exercises and lessons in human adaptation to change in southeastern Arizona.

Manton L. Botsford, Archaeologist  
BLM, Safford Field Office  
711 14th Avenue  
Safford, AZ 85546  
(520) 348-4400 / Fax: (520) 348-4450

### **Glen Canyon Dam**

Guided and self-guided tours of the dam are available to school groups. Brochures in Braille and headphones are also available for individuals who are visually impaired.

Jayne Kelleher  
Public Affairs Office  
Upper Colorado Region  
Bureau of Reclamation  
PO Box 11568 (UC-140)  
Salt Lake City, UT 84147-0568  
(801) 524-6039

### **Hoover Dam**

In addition to tours of the Hoover Dam, visitors can explore interpretive exhibits about the environment.

Bob Walsh  
Public Affairs Office  
Hoover Dam LCD-140  
PO Box 427  
Boulder City, NV 89005  
(702) 293-8421

### **Imperial National Wildlife Refuge**

The refuge offers a variety of outreach and onsite environmental education activities for students of all ages.

Imperial National Wildlife Refuge  
PO Box 72217  
Martinez Lake, AZ 85365  
(602) 783-3371 / Fax: (602) 783-0652

### **Lake Mead National Recreation Area**

Environmental educational programs are offered for grades 1-6. Pre- and post-visit curriculum materials are provided.

Division of Interpretation  
Lake Mead National Recreation Area  
601 Nevada Highway  
Boulder City, NV 89005  
(702) 293-8920

### **Natural Resources Workshop for Arizona Youth**

The program involves hands-on, field-oriented investigation and interaction. Sessions include ecology, geology, soils, plants, wildlife and hydrology, forest and range analysis, watershed management, irrigation, farm and ranch management, recreation, wilderness, and cultural resources.

Lynn Saline, Coordinator  
BLM, Safford Field Office  
711 14th Avenue  
Safford, AZ 85546  
(520) 348-4400 / Fax: (520) 348-4450

### Organ Pipe Cactus National Monument

*Juntos: Maestros y Ninos del Desierto*, a multi-cultural environmental education program, has expanded to include the greater Sonoran Desert Bioregion. It is now administered by the International Sonoran Desert Alliance (ISDA). The program provides a Sonoran Desert activity guide for teachers, and ISDA members coordinate and conduct teacher workshops on the Tohono O'odham Reservation. Organ Pipe Cactus National Monument and the Cabeza Prieta National Wildlife Refuge serve as advisors and provide resources to interested educators. Onsite programs that correspond with the activity guide are available on request.

William E. Wellman, Superintendent  
Organ Pipe Cactus National Monument  
Route 1, Box 100  
Ajo, AZ 85321  
(520) 387-6849 / Fax: (520) 387-7144

### Petrified Forest National Park

Fascinating Fossil Factory, a curriculum-based paleontology program, is the first comprehensive education program produced by the park. The program will serve as a prototype from which the scope of the education programs will be extended to include other park resources. This program includes recommended classroom activities that prepare the students for the in-park section; a field activity that requires observation, analysis, and teamwork; and follow-up activities that consist of a compilation of findings.

Science in Our Parks instills a sense of appreciation and builds knowledge about the park in fourth through sixth graders. A module introduces a theme about one of the park resources (paleontology, archaeology, or geology), and builds on concepts surrounding that resource. Students conduct mini research projects in the park and follow up the research with a project. An accompanying teacher workshop is required.

Paula Hosking, Park Ranger / Education Coordinator  
Petrified Forest National Park  
PO Box 2217  
Petrified Forest, AZ 86028  
(520) 524-6228 / Fax: (520) 524-3567  
E-mail: paula\_hosking@nps.gov

### Project Water Education for Teachers (WET)

Project WET is an interdisciplinary water education program intended to supplement a

school's existing curriculum. Classroom-ready teaching aides being developed include activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Larry Sullivan, Associate Director  
Water Resources Research Center  
350 North Campbell Avenue  
Tucson, AZ 85721  
(602) 792-9591

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Project WILD Coordinator  
Arizona Game and Fish Department  
2221 West Greenway  
Phoenix, AZ 85023  
(602) 789-3228 or 789-3920

### Saguaro National Park

In the Desert Communities program, students are introduced to the ancient native people, animals, and plants of the Sonoran Desert in the Tucson Basin. A teacher workbook is sent in advance of a pre-visit to the classroom before the students participate in the two-hour site visit. Desert Discoveries is an environmental education program that introduces Sonoran Desert plants and animals, as well as the interrelationships between them. The program includes an introduction to homesteading. A teacher workshop is held annually (three days/15 hours total). A pre-visit is made to the participating school. Also available is a Junior Ranger Program, a day camp consisting of three-day programs serving 20 children in each session. Daily topics cover park rangers, birds, wildlife, and plants and conservation. A Check-Out Activity Booklet Program allows parents to borrow a backpack of supplies so their children can complete the activities in the Junior Ranger booklet.

Tom Danton, Chief of Interpretation  
Saguaro National Park  
3693 South Old Spanish Trail  
Tucson, AZ 85730  
(520) 733-5158

### Wonderful Outdoor World (WOW)

The WOW Program for students provides information about educational programs, materials, and local land-management issues. Information is also available on various facilities, such as the Dankworth Pond Outdoor Learning Center and the San Pedro Riparian National Conservation Area.

Kathy Pedrick, Environmental Education Coordinator  
BLM, Phoenix Field Office  
2015 West Deer Valley Road  
Phoenix, AZ 85027-2099  
(602) 580-5500

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Bill Hernandez, Assistant Director  
Division of Employment and Rehabilitation Services  
1789 West Jefferson, Suite 901A  
PO Box 6123  
Phoenix, AZ 85005  
(602) 542-4910 / Fax: (602) 542-2273

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. Territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.



- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Hank Verbais, AWP-4, Program Manager,  
External Services  
PO Box 92007 WPC  
Los Angeles, CA 90009  
(310) 725-3802 / Fax: (310) 536-8404

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for Federal Aviation Administration education materials and resources. The resource centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Lew Davis, Program Manager  
Aviation Education Resource Center  
South Mountain High School  
Center for Aerospace Education  
5401 South Seventh Street  
Phoenix, AZ 85040  
(602) 271-3439

Tony Gulielmino, Aviation Department Chair  
Aviation Education Resource Center  
Pima Community College  
1668 South Research Loop Road  
Tucson, AZ 85730  
(602) 884-6186

Karen Hudson, Educational Programs  
Coordinator  
Aviation Education Resource Center  
Embry-Riddle Aeronautical University  
3200 North Willow Creek Road  
Prescott, AZ 86301  
(602) 771-6673

Gilbert McLaughlin  
Flandrau Science Center  
University of Arizona  
Tucson, AZ 85721  
(602) 621-4515

### ► **Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher

workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Stacey Benfer, Environmental Education  
Coordinator  
Environmental Protection Agency  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 9  
Stacey Benfer  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

### ► **National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA ARC  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to

administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs Branch  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Lunar and Planetary Laboratory  
NASA Educator Resource Center  
1629 East University Boulevard  
Tucson, AZ 85721  
(520) 621-6947

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Arizona Space Grant Consortium  
Lunar and Planetary Lab, Room 1025  
University of Arizona  
Tucson, AZ 85721  
(520) 621-4090

### ► **National Science Foundation (NSF)**

#### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Elizabeth Yost  
New Mexico Highlands University  
Columbia, Suite 119  
Las Vegas, NM 87701  
(505) 454-3544 / Fax: (505) 454-3005  
E-mail: byost@merlin.nmhu.edu



## Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Rene X. Diaz  
Phoenix Urban Systemic Initiative  
Phoenix Union High School District  
4502 North Central Avenue  
Phoenix, AZ 85012  
(602) 271-3130 / Fax: (602) 271-3131

# California

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Daniel J. Desmond  
DANR North Central Region  
4-H Administration  
University of California  
One Shields Avenue  
Davis, CA 95616-8518  
(916) 754-8518 / Fax: (916) 754-8541  
E-mail: djdesmond@ucdavis.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Mark Linder  
California Foundation for Ag in the Classroom  
1601 Exposition Boulevard, FB 16  
Sacramento, CA 95815  
(916) 924-4380 / Fax: (916) 923-5318

## ► Department of Commerce (DOC)

### Channel Islands National Marine Sanctuary

The sanctuary offers a science education program and a variety of educational materials for fifth grade students in the Santa Barbara school system. In-school presentations may also be arranged.

Laura Gorodezky, Education Coordinator  
Channel Islands National Marine Sanctuary  
113 Harbor Way  
Santa Barbara, CA 93109  
(805) 966-7107 / Fax: (805) 568-1582  
E-mail: lgorodezky@ocean.nos.noaa.gov

### Elkhorn Slough National Estuarine Research Reserve

The reserve offers teacher workshops, teacher guided tours, and curriculum materials.

Becky Christensen, Education Coordinator  
Elkhorn Slough National Estuarine Research Reserve  
1700 Elkhorn Road  
Watsonville, CA 95076  
(408) 728-2822 / Fax: (408) 728-1056  
E-mail: bchristensen@ocean.nos.noaa.gov

### Gulf of the Farallones National Marine Sanctuary

The sanctuary offers annual science workshops for teachers. The Whale Bus, a traveling exhibit, offers hands-on activities and visits schools upon request.

Edward Ueber, Manager  
Gulf of the Farallones National Marine Sanctuary  
Fort Mason Building, Room 201  
San Francisco, CA 94123  
(415) 561-6622 / Fax: (415) 561-6616

### Monterey Bay National Marine Sanctuary

This recently designated sanctuary will create education programs in the coming year.

Liz Love, Education Coordinator  
Monterey Bay National Marine Sanctuary  
299 Foam Street, Suite D  
Monterey, CA 93940  
(408) 647-4201 / Fax: (408) 647-4250  
E-mail: llove@ocean.nos.noaa.gov

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses

are available in six regions and are designed to enhance skills in science teaching.

Michael Spranger  
Washington Sea Grant  
University of Washington, HG-3  
3716 Brooklyn Avenue NE  
Seattle, WA 98105-6716  
(206) 685-9261 / Fax: (206) 685-0380

### Tijuana River National Estuarine Research Reserve

The reserve offers teacher training courses and student programs, which include nature walks and classes.

Gail Sevrens, Education Coordinator  
Tijuana River National Estuarine Research Reserve  
301 Caspian Way  
Imperial Beach, CA 91932  
(619) 575-3613 / Fax: (619) 575-6913  
E-mail: gsevrens@ocean.nos.noaa.gov

## ► Department of Defense (DoD)

### Civil Engineer Corps—Seabee Museum

Designed to highlight the importance of engineering in the naval forces, the Seabee Museum exhibits the history and technology of various projects of the Civil Engineer Corps. Tours are available upon request.

Civil Engineer Corps—Seabee Museum  
Naval Construction Battalion Center  
Code 10H  
1000 23rd Avenue  
Port Hueneme, CA 93043-4301  
(805) 982-5611 / Fax: (805) 982-5595

### Naval Air Station, Lemoore

The station participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout the local area.

NAS, Lemoore CA  
Commander, Naval Air Station Lemoore  
Code 013  
810 Avenger Avenue  
Lemoore, CA 93246-5037  
(209) 998-2137

### Naval Air Station, Point Mugu

The station participates in the Navy Personal Excellence Program through formation of partnerships with schools and other youth organizations throughout the local area.

NAVAIRWARCENWPNDIV Point Mugu CA  
Commander, Naval Air Warfare Center  
Weapons Division  
Point Mugu, CA 93042-5000  
(805) 989-3254

### Naval Base, San Diego

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout California, Arizona, and Nevada.

Fred Larsen  
COMNAVBASE, San Diego CA  
Commander, Naval Base (N21)  
937 North Harbor Drive  
San Diego, CA 92132-5100  
(619) 532-1514

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Robert Lee  
Eisenhower Professional Development Program  
California Department of Education  
721 Capitol Mall, 4th Floor  
Sacramento, CA 94244-2720  
(916) 657-5259 / Fax: (916) 657-2278

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Linda Barton White  
Eisenhower Professional Development Program  
California Postsecondary Education Commission  
1303 J Street, Suite 500  
Sacramento, CA 95814  
(916) 322-7984 / Fax: (916) 327-4417

### Pacific and Southwest Regional Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the

fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: clmer@csulb.edu  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

### WestEd Eisenhower Regional Consortium for Science and Mathematics Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Art Sussman and Steve Schneider, Co-Directors  
WestEd Eisenhower Regional Consortium for Science and Mathematics Education  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 241-2730 / Fax: (415) 241-2746  
<http://www.wested.org/werc/>

### WestEd Regional Educational Laboratory

WestEd identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Glen H. Harvey, Executive Director  
WestEd Regional Educational Laboratory  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 565-3000 / Fax: (415) 565-3012  
E-mail: tross@wested.org  
<http://www.wested.org/>

## ► Department of Energy (DOE)

### Lawrence Berkeley National Laboratory

The laboratory works with the Bay Area Science and Technology Education Collaboration to improve education in science, mathematics, and technology. Research opportunities are available for local high school students, secondary teachers, and undergraduate students. Various outreach programs are also available.

Roland Otto, Director  
Lawrence Berkeley National Laboratory  
Center for Science and Engineering Research  
One Cyclotron Road, Building 938C  
Berkeley, CA 94720  
(510) 486-5325 / Fax: (510) 486-6660  
E-mail: rjotto@lbl.gov

### Lawrence Livermore National Laboratory

The primary mission of the laboratory is "to provide the scientific and technological tools needed to meet critical national missions in the next 20 years." The Education Program channels the unique scientific and technical resources of the laboratory toward systemic improvement in science, mathematics, engineering, and technology education to ensure a highly skilled, diverse workforce. The laboratory introduces new approaches to teaching science and mathematics, integrates laboratory core competencies and technology to enhance science education, enhances public understanding and awareness of science and technology, and provides students and educators with opportunities to conduct research and earn advanced degrees.

Barry Goldman, Acting Education Program Manager  
Lawrence Livermore National Laboratory  
7000 East Avenue, PO Box 808, L-1  
Livermore, CA 94551  
(925) 422-3907 / Fax: (925) 422-5761  
E-mail: goldman1@llnl.gov  
<http://www.llnl.gov/>

### Western Area Power Administration (WAPA)

WAPA conducts the Regional Science Bowl, an academic competition sponsored by DOE and the community. Held each February, the Bowl encourages the study of science and mathematics and the pursuit of related careers. The regional winner advances to the national competition, held each spring in Washington, DC.

Russell Knight  
Western Area Power Administration—  
Sacramento  
114 Park Shore Drive  
Folsom, CA 95670  
(916) 353-4523 / Fax: (916) 985-1931  
E-mail: Rknight@wapa.gov

## ► Department of the Interior (DOI)

### Adopt-a-Watershed

This program is designed around a K–12 curriculum that teaches the fundamentals of watershed planning and management.

George Wingate, Hydrologist  
705 Hall Street  
Susonville, CA 96130  
(916) 257-0456 / Fax: (916) 251-5539

### Alturas Bureau of Land Management (BLM)

Adopt-a-Ranch provides environmental education to high school students. Subjects taught include wildlife, livestock management, cultural heritage, forestry, fire management, vegetation, and hydrology. Students receive presentations in the classroom and participate in trips to the Yankee Jim Ranch.

Sixth Grade Field Day provides environmental education to middle school students. Subjects taught include wildlife, livestock management, cultural heritage, forestry, fire management, vegetation, and hydrology. The field day links BLM specialists with local students and teachers.

Rich Burns, Alturas Area Manager  
708 West 12th Street  
Alturas, CA 96101  
(916) 233-4666 / Fax: (916) 233-5696

### Bakersfield Bureau of Land Management (BLM)

An Ecology Field Trip Program consists of family-oriented ecology field trips to points of environmental interest in California. Classroom ecology and Earth science experiments and demonstrations are also provided by BLM naturalists.

Gregg Wilkerson, Geologist  
Bakersfield District  
3801 Pegasus Avenue  
Bakersfield, CA 93308  
(805) 391-6081 / Fax: (805) 391-6040

### Bureau of Land Management State Office

The office provides information about educational programs and materials. Information about local programs managed by district

offices, such as the Hollister Resource Area Office, is also available.

Mary Lou West, Education Coordinator  
Bureau of Land Management  
2135 Butano Way  
Sacramento, CA 95825-0451  
(916) 978-4612 / Fax: (916) 978-4620

### Bureau of Reclamation Environmental Education

A variety of environmental programs, with an emphasis on water resources, are offered to teachers and students in grades K–12. Subjects vary from a groundwater model to instant snow storms and wetlands in a pan. Programs are presented in the classroom as well as outdoors at laboratory schools, summer camps, and some visitor centers. The program currently operates in the states of California, Colorado, Montana, Nevada, Idaho, and Utah.

Theresa Taylor, Environmental Education  
Program Assistant  
Denver Federal Center, D-5100, Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 262  
Fax: (303) 236-3573

### Cabrillo National Monument

Ranger-led Auditorium Programs introduce movies dealing with the Voyage of Cabrillo, the Pacific Grey Whale, and the tidepools. The information provides a foundation for studies related to these topics.

Cquvator Gatson, Education Coordinator  
Interpretation Division  
Cabrillo National Monument  
PO Box 6670  
San Diego, CA 92064  
(619) 557-5450 / Fax: (619) 557-5469

### Caring for the Land

This inter-agency, year-round, environmental education area is permanently located on the Los Angeles County Fairgrounds. It was built and is managed cooperatively by the Bureau of Land Management, USDA, Forest Service, National Park Service, California Department of Forestry and Fire, and the Los Angeles County Forestry and Fire Warden. The site includes an interpretive trail through southern California native ecosystems, an amphitheater, and a restored firetower. Programs are given by Native Americans on native plant uses, tree potting, etc.

Elayn Briggs, Environmental Education  
Coordinator  
California Desert District Office  
6221 Box Springs Boulevard  
Riverside, CA 92507  
(909) 697-5200 / Fax: (909) 697-5296

### Channel Islands National Park

The park offers environmental programs, including guided walks, lectures, a video, and teacher workshops. In the Floating Classroom program, park concessions and park interpreters conduct educational presentations on ships going to Anacapa Island and on the island. All-day programs highlight marine life and history of the islands. Students hike on the island and explore the tidepools.

Carol J. Spears, Chief  
Division of Interpretation  
Channel Islands National Park  
1901 Spinnaker Drive  
Ventura, CA 93001  
(805) 658-5700 / Fax: (805) 658-5799

### Death Valley National Park

The park offers environmental programs, including guided walks, lectures, and hands-on activities. In the Junior Ranger Education Program, interpreters travel to area schools and present information about the park to students. All activities are completed in and around the school. This program teaches stewardship of Death Valley and other public lands. An activity book, certificate, and badge are provided.

Terry Baldino, South District Interpreter  
Death Valley National Park  
Death Valley, CA 92328  
(760) 786-2331 / Fax: (760) 786-3283

### The Desert Tortoise Multi-Agency Exhibit Project: Win the Race Against Extinction

This is a multi-agency effort to provide California and Nevada public schools with educational materials. The exhibit includes portable display boards with photos and text, exhibit kits containing freeze-dried tortoise and tortoise shells showing predation and degradation, plants eaten by the tortoise, posters, videos, teacher guide, bookmarks, trading cards, etc.

Mary Webb, Writer / Editor  
Regional Office  
Division of Environment  
PO Box 61470  
Boulder City, NV 89001  
(702) 293-8704 / Fax: (702) 293-8023

### Folsom Dam

Guided tours are provided by the Bureau of Reclamation.

W. Louis Moore, Public Information  
Assistant  
Bureau of Reclamation, Central California  
Area Office  
7794 Folsom Dam Road  
Folsom, CA 95630-1799  
(916) 989-7289 / Fax: (916) 989-7208  
E-mail: wmoore@mp.usbr.gov

### Fort Cronkhite

Walk to the Edge of America—the Military is a two-hour, ranger-guided interpretive presentation focusing on U.S. history in California from 1850 to the present. The program uses the park's abandoned forts as learning and discussion tools. Activities include archaeological explorations, discussion of perceived foreign threats, changing technology, and problem resolutions on personal and global levels.

Another program is "B" Is for Biodiversity. Through a series of engaging activities, students walk a trail and begin to understand the concept of ecosystem health through study of a variety of species. Games, discovery walks, discussion, problem solving, and solo walks allow the students to experience why they value biological systems.

Diane Dobos-Bubno, Park Ranger  
Building 1056  
Fort Cronkhite  
Sausalito, CA 94965  
(415) 331-0845 / Fax: (415) 331-1428

### Golden Gate National Park

Exploring the Neighborhoods at the Golden Gate features a hike along the coastal bluffs and shoreline at the Golden Gate. Students learn about the homes of the plants, animals, and people who have lived there. Students meet the plants and animals that live in the forest, the bay, the beach, and the tide line. Participants catch and release a crab, observe animal "neighborhoods," and discuss how their lives affect all the neighborhoods around them.

A Walk Through Time features a hike in the forest, during which students learn about the geography, geology, and natural history of the Presidio and how it has changed through time. They also learn how the Ohlone, Spanish, Mexican, and American communities have lived with the land.

Jill Torres, Education Coordinator  
Golden Gate National Park Association  
Fort Mason, Building 201  
San Francisco, CA 94123  
(415) 556-1874 / Fax: (415) 992-2692

### Golden Gate National Recreation Area

Curriculum-based programs are led by trained staff who stress outdoor activities. Teacher guides that detail pre- and post-visit activities are available for each program. For example, Adopt-a-Beach is an environmental education program that teaches students about the effects of garbage on ocean ecosystems. Curriculum developed by the California Coastal Commission supplements a field trip to Ocean Beach (San Francisco) where students participate in a beach cleanup.

The Junior Ranger Program is a six-part education program that provides students and teachers with an in-depth national park experience. Students learn about natural and cultural resources of the park through a series of field trips to different park sites. Through discussion, hands-on activities, and journal assignments, students develop life-long skills such as cooperation, observation, decision making, questioning, recording, and analyzing information. All field trips are ranger-led.

Kevin Turner, Fort Funston Site Supervisor  
Golden Gate National Recreation Area  
Fort Mason, Building 201  
San Francisco, CA 94123  
(415) 239-2366 / Fax: (415) 556-1638

### Joshua Tree National Park

This national park manages several ranger-led natural science oriented educational programs that are available both onsite and in the classroom. Programs introduce students to different aspects of the desert environment and the people who called the desert home.

Programs include the following:

- ▶ **Desert Adaptations** allows students to discover how plants, animals, and people have adapted for survival within the desert environment.
- ▶ **Desert Issues Curriculum Guide for Educators** helps develop critical thinking skills by looking at issues facing national parks in the southern California/Nevada desert area.
- ▶ **Geologic Teenagers: The Rocks of Joshua Tree National Park** helps students understand geological concepts and the forces that created the park's landscape.
- ▶ **Habitats** helps students define habitat and stresses the importance of habitats for all living things.
- ▶ **Joshua Tree Hotel** emphasizes the interrelationships of various life forms supported by a single Joshua tree.
- ▶ **The Junior Ranger Program** is a comprehensive unit introducing students to National Park Service history and philosophy, careers, and culture as well as the natural history of the Joshua Tree National Park. This program includes a service project.
- ▶ **The Mojave Desert Discovery Educator's Guide** provides information about the cultural and natural history of Joshua Tree National Park and four other Mojave Desert parks.
- ▶ **Oasis Ecosystem** introduces students to the interrelationships between plants, animals, and people who inhabit an oasis.

- ▶ **Project Learning Tree** provides hands-on interdisciplinary activities that encourage students to investigate environmental issues and to make responsible decisions.
- ▶ **Project Wild Workshops** provide supplementary activities in environmental education and resource conservation with an emphasis on wildlife.
- ▶ **In Who Lives in the National Park?** students take a look at the diversity of life in the park and distinguish between wild versus domestic and living versus nonliving.
- ▶ **Who's Who and What's What?** introduces students to common desert plants and animals.

Lorna Sue Lange, Education Specialist  
Joshua Tree National Park  
9800 Black Rock Canyon Road  
Yucca Valley, CA 92284  
(760) 365-2371

### Lassen Volcanic National Park

The National Park Education Program provides students with a variety of structured educational activities designed to enhance their understanding of the natural and cultural history of Lassen Volcanic National Park. The program also strives to increase the participant's understanding of the importance and values of the National Park System. In addition, the park offers guided walks, lectures, a museum, and hands-on activities that focus on the natural and cultural history and geological aspects of the park. In-school presentations may be requested.

The Winter Ecology Snowshoe Program is designed to increase student awareness and understanding of the interrelationships of the plant and animal communities of Lassen in winter. The program is also designed to introduce students to the importance of snow and the role it plays in the environment. Students learn the proper way to snowshoe as well as winter survival skills.

Steve Zachary, Education Coordinator  
Division of Interpretation  
Lassen Volcanic National Park  
PO Box 100  
Mineral, CA 96063-0100  
(530) 595-4444 / Fax: (530) 595-3262

### Lava Beds National Monument

Programs include guided walks that focus on anthropological and geological aspects of the park.

Yvonne McMillan, Interpretative Ranger  
Lava Beds National Monument  
PO Box 867  
Tulelake, CA 96134  
(916) 667-2282



### **Menlo Park Earth Science Information Center**

The center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
Menlo Park Earth Science Information Center  
Building 3, Room 3128, MS 532  
345 Middlefield Road  
Menlo Park, CA 94025-3591  
(650) 329-4309 or (800) USA-MAPS  
E-mail: esicwest@usgs.gov

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Public Affairs  
Royalty Management Program  
Minerals Management Service  
1201 Elmwood Park Boulevard, MS 500  
PO Box 25165  
Lakewood, CO 80225  
(303) 231-3162 / Fax: (303) 231-3780

Education Coordinator  
Pacific Outer Continental Shelf Region  
Minerals Management Service  
770 Paseo Camarillo, MS 7000  
Camarillo, CA 93010  
(805) 389-7520 / Fax: (805) 389-7526  
(800) 6PA-COCS

### **New Melones Lake**

The visitor center offers an interpretive program on the historical and archaeological cultural resources at the New Melones Project.

Jeff McCracken  
Public Affairs Office, Mid-Pacific Region  
Bureau of Reclamation  
Federal Office Building  
2800 Cottage Way  
Sacramento, CA 95825-1846  
(916) 979-2837

### **Pinnacles National Monument**

In the Junior Park Management program, students are introduced to the management of national parks, their organization, philosophy, the National Park Service (NPS) mission, and responsibility to future generations. Students learn what their responsibilities are as owners and users of public lands. The partnership between the NPS and students is emphasized.

William Lester, Chief Ranger  
Pinnacles National Monument  
Paicine, CA 95043  
(408) 389-4485 / Fax: (408) 389-4489

### **Point Reyes National Seashore**

Point Reyes National Seashore has a wealth of natural and cultural resources including Tule elk, elephant seals, and the Point Reyes lighthouse. In addition to these resources, Point Reyes National Seashore offers environmental education programs for teachers and students. These programs are available by reservation only, on a first-come first-serve basis. Weather permitting, the following programs are offered: Exploring the World of Marine Mammals (January through May); Habitat Restoration and Adopt-A-Site; Kule Loklo: A look into the Coast Miwok Culture; Maritime History and the Point Reyes Lighthouse.

John A. Dell'Osso, Chief of Interpretation  
Point Reyes National Seashore  
Point Reyes Station, CA 94956  
(415) 663-8522 / Fax: (415) 663-8132

### **Project Water Education for Teachers (WET)**

Project WET is an interdisciplinary water education program intended to supplement a school's existing curriculum. Classroom-ready teaching aides being developed include activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Rita Sudman  
Water Education Foundation  
717 K Street, Suite 517  
Sacramento, CA 95814  
(916) 444-6240

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Elena Tarailo, Project WILD Coordinator  
California Department of Fish and Game  
1416 Ninth Street  
Sacramento, CA 95814  
(916) 653-9843 / Fax: (916) 653-1856

### **Redwood National Park**

Field seminars supplement park interpretation by providing concentrated field study of the natural and cultural history of the coast redwood ecosystem. The Howland Hill Outdoor School introduces students to coast redwood and stream ecology of the park. One- to three-day programs are available. The pro-

grams match the Del Norte County School District curriculum goals for science and history. There is a one-day teacher workshop. The Wolf Creek Outdoor School is a curriculum-based program on coastal redwood forests and prairie community for elementary school children. Ranger-led programs on stream ecology, redwood trees, and prairies are presented at the site.

Cathleen Cook, Chief Interpreter  
Redwood National Park  
1111 Second Street  
Crescent City, CA 95531  
(707) 464-6101 / Fax: (707) 464-1812

### **Sacramento National Wildlife Reserve**

Educators use a Discovery Pack to guide students on a wetlands walk within the refuge.

Denise Dachner, Outdoor Recreation Planner  
Sacramento NWR  
752 County Road 99W  
Willows, CA 95988  
(916) 934-2801 / Fax: (916) 934-7814

### **San Francisco Bay National Wildlife Refuge**

An environmental education center in the refuge offers extensive programs for students and teachers. Interpretive trails and other services are also available.

Public Use Manager  
San Francisco Bay NWR  
PO Box 524  
Newark, CA 94560  
(510) 792-0222 / Fax: (510) 792-5828

### **San Luis Reservoir**

The visitor center offers interpretive tours and exhibits at this joint state-federal reclamation project.

Jeff McCracken  
Public Affairs Office, Mid-Pacific Region  
Bureau of Reclamation  
Federal Office Building  
2800 Cottage Way  
Sacramento, CA 95825-1846  
(916) 979-2837

### **Santa Monica Mountains Recreation Area**

Introduction to Parks as Laboratories: Studies in Air, Water, and the Land is a two-part program in which educators learn organizational skills for field labs, practice laboratory techniques, and operate tools and equipment used for scientific studies in air, water, and the land. Topics include using the Discovery Scope; soil, water, and air testing; basic compass and orienteering; measuring weather;

and using the metric system. A version of the program that offers hands-on experiences for students is also available.

Lorenza Fong, Chief of Interpretation  
Santa Monica Mountains Recreation Area  
401 West Hillcrest Drive  
Thousand Oaks, CA 91360  
(818) 597-9192

### **Sequoia and Kings Canyon National Parks**

These parks offer guided tours, lectures, and environmental education activities on a seasonal basis. Hands-on learning activities are provided at the Walter Fry Nature Center during the summer. Contact the park for updated information on program schedules and topics, (209) 565-3719.

Two school programs are arranged through the Tulare County Office of Education. Under the Wings of the Condor is a multimedia program aimed at introducing third and fourth grade students to the wonders of the parks. Basic biological concepts are covered along with messages of stewardship. An activity guide builds on the lessons learned in the show. Topics include forest ecology, wildlife and plant adaptations, air quality, geography, and mathematical concepts as they relate to the size of Giant Sequoia trees. Park Helpers is a multimedia program to introduce students in first through third grades to the various types of rangers. Basic principles regarding bear biology, forest ecology, and air quality are introduced by park employees who are encountered along a journey through the parks.

Tulare County Office of Education  
Impact Center  
2637 West Burrel Avenue  
Visalia, CA 93278-5091  
(209) 733-6433 / Fax: (209) 730-2747

Division of Interpretation  
Sequoia and Kings Canyon National Parks  
Three Rivers, CA 93271-9700  
(209) 565-3134 / Fax: (209) 565-3730

### **Shasta Dam**

The visitor center offers tours and exhibits of the dam's construction, the management of the Central Valley Project, and the area's fish and wildlife resources.

Sheri Harral, Public Information Assistant  
Bureau of Reclamation, Northern California Area Office  
16349 Shasta Dam Boulevard  
Shasta Lake, CA 96019-8400  
(530) 275-1554 / Fax: (530) 275-2441  
E-mail: sharral@mp.usbr.gov

### **Yosemite National Park**

The park has several educational programs:

► **Classrooms in the Park** allows school classes to spend one or two hours with a park ranger and/or a member of Yosemite's Indian Culture staff. Spring classes focus on natural history; fall themes are based on cultural history. Materials presented are correlated to California state frameworks and include a National Park Service message of protection and preservation. All material can be adapted for groups with special needs.

► **Commencement 2000** is an invitational program that allows inner-city school students to explore careers with natural resource agencies. The program is sponsored by several agencies, including the National Park Service, the Bureau of Land Management, U.S. Fish and Wildlife Service, the Bureau of Reclamation, and the California Department of Fish and Game.

► **Discover Yosemite: A Teacher Guide to the Park** provides a self-guided way for teachers to visit the park with a class. Included are ideas on how to plan a trip; where to find features and help; maps; background information; resources; activities to do before, during, and after the visit; and descriptions of education programs.

► **The Environmental Living Program** permits students to stay overnight at the Pioneer History Center and assume the roles of historical people who influenced the development and protection of the park. The focus of the program is the establishment of a national park. An overnight workshop for teachers is required.

► **The Junior/Senior Ranger Program** allows Junior Rangers (ages 8–10) and Senior Rangers (ages 11–12) to experience nature through interactive learning during a three-hour class with a park ranger. Classes are held in Yosemite Valley for Junior and Senior Rangers and in Tuolumne Meadows for Senior Rangers only. Various topics, such as American Indians, habitats, and water cycle/pond life, are explored. Junior and Senior Rangers also attend regular ranger-led interpretive programs.

► **The Teacher Intern Program** brings teachers to Yosemite to live for five weeks in the summer while developing curriculum-based programs related to the natural and cultural history of the park. The results are made available to teachers outside the park. Programs are hands-on, interactive, and interdisciplinary.

Sue Branch, Education Specialist  
Yosemite National Park Education Program  
PO Box 577  
Yosemite, CA 95389  
(209) 375-9503 / Fax: (209) 372-0458

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Al Lee, Chief Deputy Director  
Employment Development Department  
800 Capitol Mall  
PO Box 826880, MIC 69  
Sacramento, CA 94280  
(916) 654-8210 / Fax: (916) 657-5294

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

► **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. Territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

► **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

► **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Hank Verbais, AWP-4  
Program Manager, External Services  
PO Box 92007 WPC  
Los Angeles, CA 90009  
(310) 725-3802 / Fax: (310) 536-8404

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for Federal Aviation Administration education materials and resources. The resource centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Rick Piercy, Coordinator  
Aviation Education Resource Center  
Apple Valley Science and Technology Center  
PO Box 2968, 15552 Wichita  
Apple Valley, CA 92307  
(619) 242-3514

Nick Milichevich, Chairman  
Aviation Education Resource Center  
San Jose State University  
Department of Aviation  
1 Washington Square  
San Jose, CA 95192-0081  
(408) 924-6580

Harvey Ferer  
Aviation Education Resource Center  
Museum of Flying  
2772 Donald Douglas Loop North  
Santa Monica, CA 90405  
(310) 392-8822

Nancy Harlan, Coordinator  
Aviation Education Resource Center  
San Bernardino County Superintendent of Schools  
Instructional Services Division  
601 North East Street  
San Bernardino, CA 92410-3093  
(714) 387-3152

Mary Ann Liette, Coordinator  
Aviation Education Resource Center  
Riverside County Office of Education  
3939 13th Street  
Riverside, CA 92502-0868  
(909) 788-6684

Karen Tozlian  
Fresno Unified School District Instructional Media Center  
3132 E. Fairmont  
Fresno, CA 93725  
(209) 441-3672

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Stacey Benfer, Environmental Education Coordinator  
Environmental Protection Agency (EPA)  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 9  
Stacey Benfer  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Edmond Burke, President  
Endeavor Center at Space Information Laboratories, Inc.  
NASA Educator Resource Center  
Maple High School, Lompoc U.S.D.  
PO Box 5090  
Vandenberg AFB, CA 93437  
(805) 735-5131

NASA Dryden Flight Research Center  
Educator Resource Center  
45108 North Third Street, East  
Lancaster, CA 93535  
(805) 948-7347

NASA Jet Propulsion Laboratory  
Educator Resource Center, MS CS-530  
4800 Oak Grove Drive  
Pasadena, CA 91109  
(818) 354-6916

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035  
(650) 604-3574

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Marianne McCarthy, Education Specialist  
P.O. Box 273, MS D4839A  
NASA Dryden Flight Research Center  
Edwards, CA 93523  
(805) 258-2281

Fred Shair, Manager  
Educational Affairs Office  
NASA Jet Propulsion Laboratory, MC 72-109  
4800 Oak Grove Drive  
Pasadena, CA 91109  
(818) 354-8251

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

California Space Grant Consortium  
University of California at San Diego  
California Space Institute, MC 0524  
9500 Gilman Drive  
La Jolla, CA 92093-0524  
(619) 534-5869

## **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA San Joaquin Valley Regional  
Educator Resource Center  
California State University at Fresno, MS 01  
5005 North Maple Avenue  
Fresno, CA 93740-8025  
(209) 278-0355

## ► **National Science Foundation (NSF)**

### **Urban Systemic Initiatives (USI) Program**

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Sandra Carsten  
Fresno Unified School District  
Tulare and M Street  
Fresno, CA 93721  
(209) 441-3662 / Fax: (209) 442-8488

Irene Outlaw  
San Diego City Schools  
Dana Center, Room 193  
1775 Chatsworth Boulevard  
San Diego, CA 92107-3709  
(619) 225-3408 / Fax: (619) 225-0916  
E-mail: ioutlaw@mail.sandi.net

Carol Takemoto  
Los Angeles Unified School District  
450 North Grand Avenue, Room A319  
Los Angeles, CA 90021  
(213) 625-6421 / Fax: (213) 626-7785  
E-mail: ctakemot@lausd.k12.ca.us

are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Janet Usinger-Lesquereux, Assistant Director  
Statewide Administration Office  
2317-A Renaissance Drive  
935 East Sahara Avenue  
Las Vegas, NV 89119  
(702) 795-0767 / Fax: (702) 795-2376  
E-mail: usingerj@fs.scs.unr.edu

### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Ben Damonte  
Nevada Ag in the Classroom Task Force  
1300 Marietta Way  
Sparks, NV 89431  
(702) 853-6464

## ► **Department of Defense (DoD)**

### **Naval Base, San Diego**

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout California, Arizona, and Nevada.

Fred Larsen  
COMNAVBASE, San Diego CA  
Commander, Naval Base (N21)  
937 North Harbor Drive  
San Diego, CA 92132-5100  
(619) 532-1514

## ► **Department of Education (ED)**

### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Holly Walton-Buchanan  
Eisenhower Professional Development Program  
Nevada Department of Education  
Capitol Complex  
Carson City, NV 89710  
(702) 687-9134 / Fax: (702) 687-9101

## **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

John Clevenger  
Eisenhower Professional Development Program  
University and Community College System of Nevada  
2601 Enterprise Road  
Reno, NV 89512  
(702) 784-4022 / Fax: (702) 784-1127

## **Pacific and Southwest Technology in Education Consortium (PSR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: clmer@csulb.edu  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

## **WestEd Eisenhower Regional Consortium for Science and Mathematics Education**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

# **Nevada**

## ► **Department of Agriculture (USDA)**

### **4-H State Leader**

The State 4-H Youth Development Programs



Art Sussman and Steve Schneider, Co-Directors  
WestEd Eisenhower Regional Consortium  
for Science and Mathematics Education  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 241-2730 / Fax: (415) 241-2746  
<http://www.wested.org/werc/>

### **WestEd Regional Educational Laboratory**

WestEd identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Glen H. Harvey, Executive Director  
WestEd Regional Educational Laboratory  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 565-3000 / Fax: (415) 565-3012  
E-mail: [tross@wested.org](mailto:tross@wested.org)  
<http://www.wested.org/>

## **► Department of Energy (DOE)**

### **Bechtel Nevada**

Bechtel Nevada offers college scholarships to selected science students and sponsors academic contests, outreach programs, science fairs, and a career day.

Kurt P. Arnold Communications Specialist  
Bechtel Nevada  
Strategic Communications  
PO Box 98521, MS NLV030  
Las Vegas, NV 89193-8521  
(702) 295-5792 / Fax: (702) 295-1859  
E-mail: [arnoldkp@doe.nv.gov](mailto:arnoldkp@doe.nv.gov)

## **► Department of the Interior (DOI)**

### **Bureau of Land Management State Office**

This office provides information about educational programs, materials, and local land-management issues.

Jo Lynn Worley, Education Coordinator  
Bureau of Land Management  
1340 Financial Boulevard  
Reno, NV 89502-7147  
(702) 785-6515 / Fax: (702) 785-6602

### **Bureau of Reclamation Environmental Education**

A variety of environmental programs, with an emphasis on water resources, are offered to

teachers and students in grades K-12. Subjects vary from a groundwater model to instant snow storms and wetlands in a pan. Programs are presented in the classroom as well as outdoors at laboratory schools, summer camps, and some visitor centers. The program currently operates in the states of California, Colorado, Montana, Nevada, Idaho, and Utah.

Theresa Taylor, Environmental Education Program Assistant  
Denver Federal Center, D-5100, Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 262  
Fax: (303) 236-3573

### **The Desert Tortoise Multi-Agency Exhibit Project: Win the Race Against Extinction**

This is a multi-agency effort to provide California and Nevada public schools with educational materials. The exhibit includes portable display boards with photos and text, exhibit kits containing freeze-dried tortoise and tortoise shells showing predation and degradation, plants eaten by the tortoise, posters, videos, teacher guide, bookmarks, trading cards, etc.

Mary Webb, Writer/Editor  
Regional Office  
Division of Environment  
PO Box 61470  
Boulder City, NV 89170  
(702) 293-8704 / Fax: (702) 293-8023

### **Great Basin National Park**

In addition to guided nature walks, the park offers a Junior Ranger Program that emphasizes ecology, conservation, and biology. A teacher's workshop is designed to orient local and regional educators to the opportunities and potentials of the Great Basin as an outdoor classroom.

Interpretive Specialist  
Great Basin National Park  
Baker, NV 89311  
(702) 234-7331 / Fax: (702) 234-7269

### **Hoover Dam**

The program Hoover Dam Helps Prepare Its Future is designed to educate the public about dam facilities by sharing awareness, knowledge, and hands-on experiences.

Linda Rivera, Special Program Assistant  
PO Box 60400  
Boulder City, NV 89006-0400  
(702) 293-8333 / Fax: (702) 293-8297

### **Lake Mead National Recreation Area**

Environmental educational programs are offered for grades 1-6. Pre- and post-visit

curriculum materials are provided. For example, in Desert Connections, students are introduced to concepts that build on the previous grade material in an integrated curriculum that brings students into contact with the Mohave Desert. The program requires two and one-half hours in the park.

Kay Rhode, Chief of Interpretation  
Lake Mead National Recreation Area  
601 Nevada Highway  
Boulder City, NV 89003  
(702) 293-8918 / Fax: (702) 293-8936

### **Project Water Education for Teachers (WET)**

Project WET is an interdisciplinary water education program intended to supplement a school's existing curriculum. Classroom-ready teaching aides being developed include activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Everett A. Jesse, Administrator  
Division of Water Planning  
Capitol Complex, 123 West Nye Lane  
Carson City, NV 89710  
(702) 687-3600

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Dave Sanger, Project WILD Coordinator  
Division of Wildlife  
1100 Valley Road  
Reno, NV 89520  
(702) 688-1555 / Fax: (702) 688-2939

Suzanne Sturtevant, Project WILD Coordinator  
Division of Wildlife  
4747 West Vegas Drive  
Las Vegas, NV 89108  
(702) 486-5127 / Fax: (702) 486-5133

### **Stillwater National Wildlife Refuge**

The Junior Duck Stamp Design Contest promotes conservation and waterfowl learning through the arts. Students in grades K-12 enter art designs on waterfowl for competition at the state level. The winners go on to compete in the national contest.

Anne Janik, Wildlife Biologist  
Stillwater NWR  
PO Box 1236  
Fallon, NV 89407  
(702) 423-5128 / Fax: (702) 423-0416

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Carol Jackson, Director  
Nevada Department of Employment  
1830 East Sahara Avenue, #208  
Las Vegas, NV 89104  
(702) 486-7923 / Fax: (702) 486-7924

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. Territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
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- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Hank Verbais, AWP-4  
Program Manager, External Services  
PO Box 92007 WPC  
Los Angeles, CA 90009  
(310) 725-3802 / Fax: (310) 536-8404

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for Federal Aviation Administration education materials and resources. The resource centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Frankie Lukasko  
Aviation Education Resource Center  
Galena High School Community Library  
3600 Butch Cassidy Way  
Reno, NV 89511  
(702) 851-5630

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Stacey Benfer, Environmental Education  
Coordinator  
Environmental Protection Agency  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and

contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 9  
Stacey Benfer  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035  
(650) 604-3574

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollegiate education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Community College of Southern Nevada  
NASA/Nevada Regional Educator  
Resource Center-C2A  
3200 East Cheyenne Avenue  
North Las Vegas, NV 89129  
(702) 651-4505

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and

other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Nevada Space Grant Consortium  
Desert Research Institute  
755 East Flamingo Road  
Las Vegas, NV 89132  
(702) 895-0496

## Utah

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Kevin C. Kesler, Director of 4-H & Youth Programs  
Utah State 4-H Office  
Utah State University  
Logan, UT 84322-4900  
(435) 797-0930 / Fax: (435) 797-3268  
E-mail: kevinc@ext.usu.edu

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Debra Spielmaker  
UMC 2315  
Utah State University  
Logan, UT 84322-2315  
(801) 797-1657 / Fax: (801) 538-7126

### ► Department of Defense (DoD)

#### Hill Aerospace Museum

The museum exhibits the history and technology involved in both aeronautics and aerospace. Tours and previsit curriculum materials are available upon request.

Hill Aerospace Museum  
75ABG / MU  
7961 Wardleigh Road  
Hill Air Force Base, UT 84056-5842  
(801) 777-6868

### ► Department of Education (ED)

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Brett Moulding  
Eisenhower Professional Development Program  
Utah Department of Education  
250 East 500 South  
Salt Lake City, UT 84111  
(801) 538-7791 / Fax: (801) 538-7769

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Linda Fife  
Eisenhower Professional Development Program  
Utah State Board of Regents  
Three Triad Center, Suite 550  
355 West North Temple  
Salt Lake City, UT 84180-1205  
(801) 321-7153 / Fax: (801) 321-7199

#### Pacific and Southwest Regional Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: clmer@csulb.edu  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

#### WestEd Eisenhower Regional Consortium for Science and Mathematics Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Art Sussman and Steve Schneider, Co-Directors  
WestEd Eisenhower Regional Consortium for Science and Mathematics Education  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 241-2730 / Fax: (415) 241-2746  
<http://www.wested.org/werc/>

#### WestEd Regional Educational Laboratory

WestEd identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Glen H. Harvey, Executive Director  
WestEd Regional Educational Laboratory  
730 Harrison Street  
San Francisco, CA 94107-1242  
(415) 565-3000 / Fax: (415) 565-3012  
E-mail: tross@wested.org  
<http://www.wested.org/>

### ► Department of Energy (DOE)

#### Western Area Power Administration (WAPA)

WAPA conducts the Regional Science Bowl, an academic competition sponsored by DOE

and the community. Held each February, it encourages the study of science and mathematics and the pursuit of related careers. The regional winner advances to the national competition, held each spring in Washington, DC.

David Howell  
Western Area Power Administration—Salt Lake City  
257 East 200 South, Suite 475  
Salt Lake City, UT 84111  
(801) 524-6024 / Fax: (801) 524-5017

## ► Department of the Interior (DOI)

### Bear River Migratory Bird Refuge

Participants in the 4-H Wildlife Habitat Evaluation Contest learn and apply wildlife management concepts and principles in a five-part contest. Junior and senior divisions allow participation of a large range of age groups. The state contest is held annually.

Other programs include High Summer Camp, an inter-agency effort between federal and state land management agencies and Utah State University to introduce high school students to college requirements and career opportunities in natural resource fields. The program is specifically designed to attract a diverse workforce to natural resource careers. Wetland Education Trunks contain lesson guides, materials, and equipment for classroom and onsite exploration of wetlands. Everything is packaged in a trunk and shipped from school to school. Lessons are grade-specific and encourage outside exploration.

Mark Lanier, Refuge Operations Specialist  
Vickie Roy, Wildlife Biologist  
Bear River Migratory Bird Refuge  
866 South Main  
Brigham City, UT 84302  
(801) 723-5887 / Fax: (801) 723-8873

### Bryce Canyon National Park

Classroom and in-park activities are centered on geology and the natural and cultural history of the park.

Robert Mack  
Assistant Chief for Interpretation  
Bryce Canyon National Park  
PO Box 170001  
Bryce Canyon, UT 84717  
(801) 834-5322 / Fax: (801) 834-5215  
E-mail: robert\_mack@nps.gov

Debbie Cantu  
Education Specialist  
Bryce Canyon Natural History Association  
PO Box 170002  
Bryce Canyon, UT 84717  
(801) 834-5322 / Fax: (801) 834-5215  
E-mail: debbie\_cantu@nps.gov

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Sherry Foot, Education Coordinator  
Bureau of Land Management  
PO Box 45155, 324 South State Street  
Salt Lake City, UT 84145-0155  
(801) 539-4195 / Fax: (801) 539-4013

### Bureau of Reclamation Environmental Education

A variety of environmental programs, with an emphasis on water resources, is offered to teachers and students in grades K–12. Subjects vary from a groundwater model to instant snow storms and wetlands in a pan. Programs are presented in the classroom as well as outdoors at laboratory schools, summer camps, and some visitor centers. The program currently operates in the states of California, Colorado, Montana, Nevada, Idaho, and Utah.

Theresa Taylor, Environmental Education Program Assistant  
Denver Federal Center, D-5100, Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 262  
Fax: (303) 236-3573

### Capitol Reef National Park

The park offers a Teacher's Resource Guide, a workbook offering lesson plans and slide sets to teach the following topics: archaeology, geology, desert flora/fauna, pioneer history, and National Park Service.

Cindy Doktorski, Education Outreach Coordinator  
Capitol Reef National Park  
Torrey, UT 84775  
(435) 425-3791 / Fax: (435) 425-3791  
<http://www.nps.gov/care/>

### Color Country Nature Camp

This student program provides information about educational programs, materials, and local land management issues. Information is also available on facilities, such as the Dankworth Pond Outdoor Learning Center and San Pedro Riparian National Conservation Area.

Bette Arial, Public Affairs Officer  
BLM, Arizona Strip District  
345 East Riverside Drive  
St. George, UT 84790-9000  
(435) 688-3200

### Dinosaur National Monument

Onsite student programs and in-school presentations target primarily students in grades 3–6. Information is provided on resource issues related to school curricula.

Division of Interpretation  
Dinosaur National Monument  
PO Box 128  
Jensen, UT 84035  
(970) 374-3000

### DOI Regional Office

In the Groundwater Model Demonstration and Lecture, presenters visit schools and groups to demonstrate and discuss all aspects of groundwater management issues. The model is a cut-away, which allows people to see why and how water moves, effects of pumping, and pollution. The Water Education Calendar program publishes original artwork on water themes by Utah school children. The calendar includes teacher lessons and activities on water education topics.

Barry Wirth, Public Affairs Officer  
Salt Lake City Regional Office  
125 South State Street, Room 7006  
Salt Lake City, UT 84138-1102  
(801) 524-6477 / Fax: (801) 524-3336

### Earth Science Information Center, Salt Lake City

The center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
Salt Lake City Earth Science Information Center  
2222 W. 2300 South, 2nd Floor  
Salt Lake City, UT 84119  
(801) 975-3740  
E-mail: slcesic@usgs.gov

### Flaming Gorge Dam

Located on the Green River, the visitor center offers guided and self-guided tours. Brochures in Braille and headphones are provided for individuals with visual impairments.

Jayne Kelleher  
Public Affairs Office  
Upper Colorado Region  
Bureau of Reclamation  
PO Box 11568 (UC-140)  
Salt Lake City, UT 84147-0568  
(801) 524-6039

### Intrigue of the Past Archaeology Education

Intrigue of the Past teaches basic archaeological concepts including context, scientific inquiry, classification, chronology, and culture. Workshops cover Utah prehistory, archaeological resource conservation, and Native American perspectives on archaeology. Teachers receive an activity guide with 34 hands-on lessons that develop thinking skills, encourage problem solving, and employ a variety of teaching and learning styles. A resource directory is included.



Jeanne M. Moe, Archaeologist  
BLM  
PO Box 45155  
Salt Lake City, UT 84145-0155  
(801) 539-4060 / Fax: (801) 539-4200  
E-mail: jmoe@ut.blm.gov

### Jordanelle Reservoir

The visitor center offers interpretive programs and nature trails.

Jayne Kelleher  
Public Affairs Office  
Upper Colorado Region  
Bureau of Reclamation  
PO Box 11568 (UC-140)  
Salt Lake City, UT 84147-0568  
(801) 524-6039

### Project Water Education for Teachers (WET)

Project WET is an interdisciplinary water education program intended to supplement a school's existing curriculum. Classroom-ready teaching aides being developed include activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Virginia Jensen  
Department of Natural Resources  
Division of Water Resources  
1636 West North Temple, Suite 310  
Salt Lake City, UT 84116-3156  
(801) 538-7299

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Bob Ellis, Project WILD Coordinator  
Utah Division of Wildlife Resources  
1596 West North Temple  
Salt Lake City, UT 84116-3195  
(801) 538-4720 / Fax: (801) 538-4709

### Strawberry Reservoir

Guided and self-guided nature trails are available at the visitor center.

Jayne Kelleher  
Public Affairs Office  
Upper Colorado Region  
Bureau of Reclamation  
PO Box 11568 (UC-140)  
Salt Lake City, UT 84147-0568  
(801) 524-6039

### Zion National Park

Programs include guided nature walks that focus primarily on environmental education. A Junior Ranger Program is also available. Zion Outreach Programs provide curriculum-

based, hands-on educational programs to local area schools. The current programs target grades 1-6. The program consists of pre- and post-visit information, materials for teachers, and an onsite visit by a ranger or a field trip to the park.

Andrea Bornemeier, Park Ranger  
Education Director  
Zion National Park  
Springdale, UT 84767  
(801) 772-3256 / Fax: (801) 772-3426

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Robert C. Gross, Executive Director  
Department of Workforce Services  
140 East 300 South  
PO Box 143001  
Salt Lake City, UT 84114-3001  
(801) 531-3780 / Fax: (801) 531-3785

### ► Department of Transportation (DOT)

#### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. Territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across

the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for Federal Aviation Administration education materials and resources. The resource centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

P.R. Ron Smart, Director  
Aviation Education Resource Center  
Aviation Science Department  
Utah Valley State College  
800 West 1200 South  
Orem, UT 84058-5999  
(801) 222-8000, ext. 8436

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Cece Forget, Environmental Education Coordinator  
Environmental Protection Agency  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a

nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 8  
Cece Forget  
One Denver Place (80C), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035  
(650) 604-3574

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network

(ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Weber State University  
NASA ERC LL230  
2509 University Circle  
Ogden, UT 84408-2509  
(801) 626-7614/6590

Educational Resources and Technology Center  
Utah State University  
2845 University Boulevard  
Logan, UT 84322-2845  
(801) 797-3377

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Rocky Mountain Space Grant Consortium  
College of Engineering  
Engineering Building, Room EL 302  
Utah State University  
Logan, UT 84322-4140  
(801) 797-1592

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Elizabeth Yost  
New Mexico Highlands University  
Columbia, Suite 119  
Las Vegas, NM 87701  
(505) 454-3544 / Fax: (505) 454-3005  
E-mail: byost@merlin.nmhu.edu

- ▶ Delaware
- ▶ District of Columbia
- ▶ Maryland
- ▶ New Jersey
- ▶ Pennsylvania

# Mid-Atlantic Region

▶ **Mid-Atlantic Eisenhower Consortium  
for Mathematics and Science Education**



**T**he Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education is one of 10 established by the U.S. Department of Education. Along with the Eisenhower National Clearinghouse for Mathematics and Science Education (ENC) at The Ohio State University, the regional consortia form a coordinated, field-based national infrastructure to promote mathematics and science improvement. The consortia are designed to address the realization that past mathematics and science reform efforts have been piecemeal and isolated events, and that a new approach is needed if U.S. students are, indeed, to be first in the world in mathematics and science achievement. The Mid-Atlantic Eisenhower Consortium is housed at Research for Better Schools (RBS) in Philadelphia.

## Mission

The consortium's primary mission—to support improvement in mathematics and science education by providing technical assistance and training, disseminating exemplary materials, and coordinating resources within the Mid-Atlantic region—engages groups and individuals at all levels of the educational system to help improve student performance. Technology is included as an important tool for instruction and communication among consortium partners.

The Mid-Atlantic region is particularly rich in technical assistance and knowledge-based resources in mathematics and science. Individuals and organizations assume active leadership roles in the consortium teams established in each state. They include representatives from both public and private schools, state education departments, institutions of higher education, business and industry, state mathematics and science coalitions, professional associations, and such informal educational agencies as the Franklin Institute in Philadelphia and the Carnegie Science Center in Pittsburgh. These individuals and organizations bring years of experience and enormous insight into providing the technical assistance and knowledge needed to support the improvement of mathematics and science education.

## Statewide Efforts

Through teams in each state, the consortium sponsors technical assistance and professional development on high-performance standards, curriculum frameworks, and alternative assessment. This assistance is delivered through intensive workshops, conferences, and onsite consultation.

For example, in Delaware, the consortium has sponsored inservice workshops in mathematics and science that are aligned with the state's content standards and performance indicators. In the District of Columbia, the consortium is supporting professional development institutes on using the results of the Third International Mathematics and Science Study (TIMSS) and the SAT-9 to improve student achievement. In Maryland, the consortium has sponsored seminars on TIMSS for mathematics and science supervisors and training for professional development facilitators. In New Jersey, the consortium, in close collaboration with the State Systemic Initiative (SSI), is sponsoring public awareness activities and professional development in promising curriculum practices. In Pennsylvania, the consortium has sponsored professional development programs on various topics, including elementary science teaching, equity, and the development of state mathematics and science collaboratives.

## Regional Efforts

The consortium publishes a newsletter on mathematics and science education that is distributed to 50,000 educators, thereby reaching every school building in the region. In addition, the consortium develops electronic resources to serve educators. These resources may be accessed through the RBS World Wide Web site, which provides detailed information about consortium activities, services, and products, and enables users to access an extensive variety of local, regional, and national mathematics and science education resources. The consortium also promotes communication and networking among state teams, regional groups, and educators through electronic networks and forums.

The consortium also develops publications. For example, three publications that summarize the twelfth, eighth, and fourth grade results from TIMSS have been prepared. *Internet Jones*, an illustrated guide that helps educa-

tors understand the Internet and how it can be used in the classroom, has been completed and disseminated extensively throughout the country.

Finally, other means of communication include Mid-Atlantic regional conferences for consortium members, state and national conference presentations, consortium state team meetings, and information disseminated via telephone and mail.

Collaboration among the states of the region, as well as with the other consortia and ENC, results in a whole effort that is greater than the sum of its parts. Many coordinated resources are used to achieve the goal of improved mathematics and science education in the Mid-Atlantic region.

**Keith M. Kershner**  
*Director*

**William Geppert**  
*Senior Mathematics Associate and  
Pennsylvania Team Liaison*

**Patricia Wang-Iverson**  
*Senior Science Associate and DC Team Liaison*

**John Connolly**  
*New Jersey Team Liaison*

**Louis M. Maguire**  
*Maryland and Delaware Team Liaison*

**Stephen Bouikidis**  
*Dissemination Specialist*

**Peter Donahoe**  
*Resource Center Coordinator*

**Susan Danin**  
*Evaluator*

**Ronnen Miller**  
*Manager of Information Systems*

**Tom Lorenz**  
*Multimedia Information Systems Specialist*

Mid-Atlantic Eisenhower Consortium for  
Mathematics and Science Education  
Research for Better Schools  
444 North Third Street  
Philadelphia, PA 19123  
(215) 574-9300, ext. 280  
Fax: (215) 574-0133  
E-mail: mathsci@rbs.org  
<http://www.rbs.org/eisenhower/>



# Delaware

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Joy G. Sparks, Interim Assistant Director  
4-H Youth Development  
122 Townsend Hall  
University of Delaware  
Newark, DE 19717-1303  
(302) 831-2509 / Fax: (302) 831-3651  
E-mail: joy.sparks@mvs.udel.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Anne T. Fitzgerald  
Delaware AIIIC  
Delaware Department of Agriculture  
2320 South DuPont Highway  
Dover, DE 19901  
(302) 739-4811, ext. 279  
Fax: (302) 697-6287

### Career Enrichment Program

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, and seniors in the mid-Atlantic states, who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

## ► Department of Commerce (DOC)

### Delaware National Estuarine Research Reserve

Ecological and environmental education programs for both students and teachers are offered at the reserve.

Tina Bernat, Education Coordinator  
Delaware National Estuarine Research Reserve  
Delaware Department of Natural Resources and Environmental Control  
PO Box 1401  
Dover, DE 19901  
(302) 739-4413 / Fax: (302) 739-3817  
E-mail: cbernat@dnrec.state.de.us

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Bill Hall  
Delaware Sea Grant  
700 Pilottown Road  
Lewes, DE 19958  
(302) 645-4253 / Fax: (302) 645-4007

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Sally Caldwell  
Eisenhower Professional Development Program  
Delaware Department of Public Instruction  
John G. Townsend Building, PO Box 1402  
Dover, DE 19903  
(302) 739-4885 / Fax: (302) 739-4483

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Paul LeMahieu and Sue Furhman  
Eisenhower Professional Development Program  
College of Education, University of Delaware  
Delaware Education Research & Development Center  
Newark, DE 19716  
(302) 831-6072 / Fax: (302) 831-4438

### Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Keith Kershner, Director  
Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education  
444 North Third Street  
Philadelphia, PA 19123-4107  
(215) 574-9300 / Fax: (215) 574-0133  
E-mail: kershner@rbs.org  
<http://www.rbs.org/eisenhower/>

### Mid-Atlantic Laboratory for Student Success (LSS)

LSS identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Margaret Wang, Executive Director  
Laboratory for Student Success  
Temple University Center for Research in Human Development and Education  
933 Ritter Annex  
1301 Cecil B. Moore Avenue  
Philadelphia, PA 19122-6091  
(215) 204-3030 / Fax: (215) 204-5130  
(800) 892-5550  
<http://www.temple.edu/departments/LSS/>

### Northeast Regional Technology in Education Consortium (NetTech)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribauda,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street, 16th Floor  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

## ► Department of the Interior (DOI)

### Bombay Hook National Wildlife Refuge

Programs include guided tours and lectures that center on wildlife management. Habitat studies programs are also available. In Forest Studies, students are instructed on the forest ecology of the refuge. In Meadow Studies, students use nets to sweep a meadow area for insects and other invertebrates, occasionally finding a herptile. Students also learn flower identification. They classify what they find and compare it to what they find at the edge of the meadow and forest.

Wetland Habitat includes studies of freshwater, brackish water, salt marshes, and the bay. Tools include dip and seine nets to sample organisms, field guides for identification of plants and animals, water test kits, collection jars, and pans. The students use data sheets and lesson plans to record their observations.

Refuge staff occasionally (mostly during the winter) present offsite programs at schools, clubs, and other community sites. These talks can be on general wildlife topics (for example, covering the major classes of animals and their characteristics and adaptations; endangered species; raptors; wetlands; Bombay Hook). The programs include movies or slide shows and animal mounts for viewing.

Marian Johnson-Pohlman, Outdoor  
Recreation Planner  
Bombay Hook NWR  
2591 Whitehall Neck Road  
Smyrna, DE 19977  
(302) 653-6872 / Fax: (302) 653-0684  
E-mail: r5rw\_bhr@mail.fws.gov

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Nancy Rolli, Project WILD Coordinator  
Department of Natural Resources, I and E  
PO Box 1401  
Dover, DE 19903  
(302) 739-4506 / Fax: (302) 294-0874

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Michael Benefield, Employment and Training Director  
Delaware Department of Labor  
Division of Employment and Training  
4425 North Market Street, PO Box 9828  
Newark, DE 19809  
(302) 761-8110 / Fax: (302) 761-6617

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services,

including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Stephanie Wright  
Aviation Education Resource Center  
Delaware Teachers Center  
Claymont Education Campus  
3401 Green Street  
Claymont, DE 19703  
(302) 798-3806

► **Environmental Protection Agency (EPA)**

**EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Bonnie Smith and Nan Ides, Environmental Education Coordinators  
Environmental Protection Agency  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 / Fax: (215) 566-5102

**The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 3  
Nan Ides and Larry Brown  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 or 5527 / Fax: (215) 566-5104

► **National Aeronautics and Space Administration (NASA)**

**NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laser-discs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-8570

**NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130  
Greenbelt, MD 20771-0001  
(301) 286-7206

**NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Delaware Aerospace Center  
NASA Regional Educator Resource Center  
500C Duncan Road  
Wilmington, DE 19809  
(302) 454-2432

**Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Delaware Space Grant Consortium  
Bartol Research Institute  
University of Delaware  
217 Sharp Laboratory  
Newark, DE 19716-4793  
(302) 831-8116

**District of Columbia**

► **Department of Agriculture (USDA)**

**4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Michael Hill, Acting Program Leader  
4-H & Youth  
University of the District of Columbia  
District of Columbia CES  
4200 Connecticut Avenue NW  
Washington, DC 20008  
(202) 274-6926 / Fax: (202) 274-6930

**Career Enrichment Program**

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, and seniors in the mid-Atlantic states, who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

► **Department of Commerce (DOC)**

**National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Bill Hall  
Delaware Sea Grant  
700 Pilottown Road  
Lewes, DE 19958  
(302) 645-4253 / Fax: (302) 645-4007

► **Department of Defense (DoD)**

**The Navy Museum**

The museum chronicles the history of the United States Navy from the Revolution to the present. User-friendly and interactive, the

exhibits offer a hands-on approach to interpreting the development of naval weaponry and technology. Curriculum-related tours and programs are available for grades 1–12, by reservation.

The Navy Museum  
Building 76, Washington Navy Yard  
901 M Street SE  
Washington, DC 20374-5060  
(202) 433-4882 / Fax: (202) 433-8200

### **Science and Engineering Apprentice Program**

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near the participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer. Participating organizations located in the District of Columbia are Armed Forces Institute of Pathology (AFIP), Naval Research Laboratory, United States Naval Observatory (USNO), and Walter Reed Army Institute of Research (WRAIR).

Marylin Krupshaw  
GWU/SEAS  
Science and Engineering Apprentice Program  
707 22nd Street NW  
Washington, DC 20052  
(202) 994-2234

### **Walter Reed Army Institute of Research**

The institute offers science and engineering internships for high school students.

Marvin Rogul, Associate Director  
Research Marketing and Policy Development  
Walter Reed Army Institute of Research  
Washington, DC 20307-5100  
(202) 782-7580

### **Washington Navy Yard, Washington, DC**

The Navy Community Service Program forms partnerships with schools and other youth organizations throughout the national capital region.

COMNAVDIST, Washington, DC  
Commander  
Naval District Washington  
Washington Navy Yard, Building 200  
Code OOG  
901 M Street SE  
Washington, DC 20374-2002  
(202) 433-3728

## **► Department of Education (ED)**

### **Eisenhower National Clearinghouse (ENC) Capital Collection**

Located at The George Washington University in Washington, DC, this site serves as a minirepository for ENC's K–12 mathematics and science resources. It is also one of 12 ENC Demonstration Sites throughout the nation. The Capital Collection includes representative materials from the ENC National Collection. The Capital Collection and Demonstration Site is open year-round at hours convenient to teachers. Educators and others may preview curriculum materials included in the collection and learn how to integrate technology into their classroom activities. Several computer workstations are available for educators to search ENC Resource Finder for additional resources, including those found via the Internet. Upon request, Capital Collection staff will travel to schools in the Washington, DC, metropolitan area to demonstrate ENC Online and other resources.

The George Washington University  
Gelman Library—Room B06  
2130 H Street NW  
Washington, DC 20052  
(202) 994-4519 / Fax: (202) 994-4520  
E-mail: enc@gwis2.circ.gwu.edu

### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Bonnie M. Smith  
Eisenhower Professional Development  
Program  
DC Public Schools  
Rabour Administrative Building, Room 225  
2nd & Peabody Streets NW  
Washington, DC 20004  
(202) 541-6335 / Fax: (202) 541-6332

Charles Geboe  
Eisenhower Professional Development  
Program  
Department of the Interior, BIA  
1849 C Street NW, MS 3512, MIB  
Washington, DC 20240  
(202) 208-6020 / Fax: (202) 208-3200

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher

Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Edward Yearwood  
Eisenhower Professional Development  
Program  
Office of Postsecondary Education Research  
and Assistance  
2100 Martin Luther King, Jr. Avenue SE  
Suite 401  
Washington, DC 20020  
(202) 727-3685 / Fax: (202) 727-2739

Charles Geboe  
Eisenhower Professional Development  
Program  
Department of the Interior, BIA  
1849 C Street NW, MS 3512, MIB  
Washington, DC 20240  
(202) 208-6020 / Fax: (202) 208-3200

### **Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Keith Kershner, Director  
Mid-Atlantic Eisenhower Consortium for  
Mathematics and Science Education  
444 North Third Street  
Philadelphia, PA 19123-4107  
(215) 574-9300 / Fax: (215) 574-0133  
E-mail: kershner@rbs.org  
<http://www.rbs.org/eisenhower/>

### **Mid-Atlantic Laboratory for Student Success (LSS)**

LSS identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Margaret Wang, Executive Director  
Laboratory for Student Success  
Temple University Center for Research in  
Human Development and Education  
933 Ritter Annex  
1301 Cecil B. Moore Avenue  
Philadelphia, PA 19122-6091  
(215) 204-3030 / Fax: (215) 204-5130  
(800) 892-5550  
<http://www.temple.edu/departments/LSS/>

### **Northeast Regional Technology in Education Consortium (NetTech)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student



achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribauda,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street, 16th Floor  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

## ► Department of the Interior (DOI)

### **Earth Science Information Center, Washington, DC**

The center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
Washington, DC, Earth Science Information Center  
U.S. Department of the Interior  
1849 C Street NW, Room 2650  
Washington, DC 20240  
(202) 208-4047  
E-mail: [esicmail@usgs.gov](mailto:esicmail@usgs.gov)

### **Ft. Dupont Park**

The Model Elementary Science Program is a cooperative venture between the District of Columbia Public Schools and the National Park Service. Fifth graders visit the park three times per school year to take part in hands-on activities in woodland and meadow ecosystems and indoors in the Nature Discovery room. The program provides inservice workshops to approximately 300 teachers.

Katrina Roberts, Site Manager  
Ft. Dupont Park  
1900 Anacostia Drive SE  
Washington, DC 20020  
(202) 426-7723 / Fax: (202) 426-0698

### **Kenilworth Aquatic Gardens**

Education programs include the following:

- **Birds and Their Habitat** introduces wetland birds. The program discusses when and why birds can be found in this particular habitat and identifies several kinds of birds by color and sound.
- **Ecology of a Pond** features a detailed survey of freshwater pond environments. Special attention is paid to the life history of ponds, the characteristics of their various zones, and specialized plant and animal life. Coverage includes the food chain, spring and fall overturn, plant successions, invertebrates, and vertebrates.
- **Frogs and Toads** is an introductory survey for the beginning student. The program presents interesting facts about morphology, behavior, reproduction, growth, and development.
- **Insects** begins with a viewing of fantastic close-up photography of insects, followed by an outdoor trek to view aquatic insects.
- **Introduction to Wetlands** introduces the gardens as a wetland. Students discuss characteristics of a wetland and learn of other wetlands in the country. Groups will view a healthy and an unhealthy marsh in order to compare, contrast, and discuss.
- **Snakes—More Fascinating than Fearful** includes learning about the snake's life habits, ecology, hatching, shedding, and care. The four poisonous snakes of the U.S. and Canada are identified; a live specimen may be available for viewing. Discussion is also centered around the myths about snakes and the importance of snakes to people and their environment.
- **Water Plants** is a program featuring plants associated with freshwater and how they differ from terrestrial plants. The program highlights the spectacular inventory of plants at Kenilworth Aquatic Gardens.
- **Water Pollution and Wildlife** is an interactive program featuring a hands-on game called "Who Dirtied the Water?" This program helps children and adults see first hand how water is fouled and the effect it has on the environment.

Cynthia Salter-Stith, Site Manager  
Kenilworth Aquatic Gardens  
1900 Anacostia Drive SE  
Washington, DC 20020  
(202) 426-6905 or 426-7109

### **National Capitol Parks, East**

In Animal Life on the Farm, children are introduced to farm animals, their sounds, the

benefits derived from them, and the care provided to them. Teacher workshops include pre- and post-activities for the classroom.

Ann Vonnegut-Frieling, Park Ranger  
National Capitol Parks, East  
1900 Anacostia Drive SE  
Washington, DC 20020  
(202) 619-5185

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Jim Butler, Project WILD Coordinator  
Environmental Regulation Administration  
2100 Martin Luther King Jr. Avenue SE  
Washington, DC 20020  
(202) 404-1145, ext. 3054  
Fax: (202) 404-1150

### **Rock Creek Nature Center**

Nature programs and hikes explore the different habitats within Rock Creek Park. Land, water, plants, and animals coexist in this densely wooded urban forest in the heart of Washington, DC. Exploring the Night Sky illustrates planetary motion and seasonal change in the Rock Creek Park Planetarium. Students and adults are introduced to the brightest stars, the moon, planets, and other interesting heavenly phenomena. Urban Wildlife Kits focus on three park animals: the white-tailed deer, eastern box turtle, and great-horned owl. The kit offers a variety of activities and lessons to teach youngsters (K-3) about the natural history of these animals.

Dwight Madison, Interpretive Supervisor  
Rock Creek Nature Center  
5200 Glover Road NW  
Washington, DC 20015  
(202) 426-6828 / Fax: (202) 426-1823  
E-mail: [dwight\\_madison@nps.gov](mailto:dwight_madison@nps.gov)

## ► Department of Labor (DOL)

### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

F. Alexis Roberson, Acting Director  
DC Department of Employment Services  
500 C Street NW, Suite 600  
Washington, DC 20001  
(202) 724-7185 / Fax: (202) 724-7112

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region. Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

Terry White  
Aviation Education Program (AHR-15)  
Federal Aviation Administration  
Aviation Education Program  
400 Seventh Street SW, Plaza 100  
Washington, DC 20590  
(202) 366-7018 / Fax: (202) 366-3786

Phillip S. Woodruff, Aviation Education  
Team Leader  
Aviation Education Program (AHR-15)  
Federal Aviation Administration  
400 Seventh Street SW, Plaza 100  
Washington, DC 20591  
(202) 267-3788 / Fax: (202) 267-9508

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Bonnie Smith and Nan Ides, Environmental  
Education Coordinators  
Environmental Protection Agency  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 / Fax: (215) 566-5102

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 3  
Nan Ides and Larry Brown  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 or 5527 / Fax: (215) 566-5104

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laser discs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-8570

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130  
Greenbelt, MD 20771-0001  
(301) 286-7206

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

University of the District of Columbia  
NASA Regional Educator Resource Center  
4200 Connecticut Avenue NW, MS 4201  
Washington, DC 20008  
(202) 274-6287 or 274-6288 or 274-6285

National Air and Space Museum  
Smithsonian Institution  
Educational Services Center, MRC-305  
Washington, DC 20560  
(202) 357-4223

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

District of Columbia Space Grant  
Consortium  
Space Policy Institute  
714 Gelman Library  
2013 G Street NW  
George Washington University  
Washington, DC 20052  
(202) 994-2615

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► **Smithsonian Institution**

**National Air and Space Museum**

The Educational Services Department at the museum provides instructional materials and workshops for teachers. Opportunities for students include the Explainers Program for high school and college students and an intern program for college students. A home page contains online galleries, educational materials, and information about programs.

National Air and Space Museum  
Educational Services Department, MRC 305  
Smithsonian Institution  
Washington, DC 20560  
(202) 633-2106 / Fax: (202) 633-8928  
<http://www.nasm.edu/>

**National Museum of American History**

The museum's Hands-on Science Center offers programs that engage students in the same kinds of activities that scientists use every day. By analyzing water samples, building a simple circuit, or measuring the radioactivity in common household objects, students learn about science from the inside, discovering how scientists change the way we live. For information about school programs and a tour application form, call (202) 357-1481.

Theresa Esterlund, Director  
Hands-on Science Center  
National Museum of American History  
13th Street and Constitution Avenue NW  
Washington, DC 20560  
(202) 786-2307 / Fax: (202) 357-3328

**National Science Resources Center**

The center maintains a comprehensive collection of effective science teaching resource materials. It holds more than 5,000 volumes, including materials developed by national curriculum projects, school systems, commercial publishers, and science museums. Educators interested in visiting the collection may call to make arrangements.

Douglas Lapp, Executive Director  
National Science Resources Center, MRC 403  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-4892 / Fax: (202) 786-2028

**National Zoological Park**

At the precollege level, the zoo's education department offers programs, self-guiding materials, learning lab sessions, and teacher workshops. *The National Zoo News* is a yearly newspaper with useful teacher information.

Office of Education and Volunteer Services  
National Zoological Park  
Smithsonian Institution  
Washington, DC 20008  
(202) 673-4955

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

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## Maryland

► **Department of  
Agriculture (USDA)**

**4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Frankie Schwenk, Assistant Director,  
4-H Youth & Family Programs  
Maryland 4-H Center  
University of Maryland  
8020 Greenmead Drive  
College Park, MD 20740  
(301) 403-4248 / Fax: (301) 422-7914  
E-mail: [fs52@umail.umd.edu](mailto:fs52@umail.umd.edu)

**Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Steven A. Connelly  
Maryland Agricultural Education  
Foundation, Inc.  
2101 East Fort Avenue, Suite 124  
Baltimore, MD 21230  
(410) 752-0671 / Fax: (410) 783-0857

**Career Enrichment Program**

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, and seniors in the mid-Atlantic states, who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

► **Department of  
Commerce (DOC)**

**Chesapeake Bay National  
Estuarine Research Reserve (MD)**

The reserve offers both in-school and onsite education programs. Reservations are required.

Kathleen Buppert, Education Coordinator  
Chesapeake Bay National Estuarine Research  
Reserve (MD)  
Division of Natural Resources  
Tawes State Office Building, E-2  
580 Taylor Avenue  
Annapolis, MD 21401  
(410) 260-8714 / Fax: (410) 260-8709  
E-mail: [kbuppert@dnr.state.md.us](mailto:kbuppert@dnr.state.md.us)

**National Institute of Standards  
and Technology**

The institute's student programs provide employment for high school, undergraduate, and graduate level students who are pursuing courses in physical sciences, engineering, computer science, or mathematics.

Kimberly J. Goode, Student Coordinator  
National Institute of Standards and  
Technology  
Office of Personnel and Civil Rights  
Administration Building, Room A123  
Gaithersburg, MD 20899  
(301) 975-3026

**National Sea Grant College  
Program, COAST Operation  
Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Bill Hall  
Delaware Sea Grant  
700 Pilottown Road  
Lewes, DE 19958  
(302) 645-4253 / Fax: (302) 645-4007

## ► Department of Defense (DoD)

### National Security Agency (NSA)

The NSA sponsors a speakers bureau that offers a variety of fun and fascinating mathematics and science talks to elementary, middle, or high school students by members of the NSA mathematics and science community. The objective is to increase student interest in mathematics and science and present instruction that models the recommendations of the National Council of Teachers of Mathematics (NCTM) standards. A catalog of topics is available.

National Security Agency  
Undergraduate Training Program  
Attention: M3222  
Fort Meade, MD 20755-6000  
(410) 859-4590 / Fax: (800) 962-9398

### Naval Air Test and Evaluation Museum

The museum depicts the history of testing and evaluating U.S. naval aircraft. Exhibits include actual aircraft, a cockpit trainer, and hands-on displays. Admission is free, and tours are available upon request.

Naval Air Test and Evaluation Museum  
Naval Air Warfare Center  
PO Box 407  
Patuxent River, MD 20670-5304  
(301) 863-7418

### Science and Engineering Apprentice Program

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near the participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer. The following are participating organizations in the state of Maryland:

David Lenz  
Army Medical Research Institute of Chemical Defense (MRICD)  
Aberdeen Proving Ground, MD 21010-5425  
(410) 671-2372

Carol Linden  
Army Medical Research Institute of Infectious Disease (MRIID)  
Ft. Detrick, MD 21702-5011  
(301) 619-2767

George Klem  
Army Research Laboratory (ARL-APG)  
Aberdeen Proving Ground, MD 21005-5066  
(410) 278-6807

Jesse Barley  
Center for Health Promotion and Preventive Medicine (CHPPM)  
MCHB-ZA, Building E-2100  
Aberdeen Proving Ground, MD 21010-5422  
(410) 671-2014

Francis Hughes  
Edgewood Research, Development and Engineering Center (ERDEC)  
Aberdeen Proving Ground, MD 21010-5423  
(410) 671-5770

Sylvia Rhodes  
Naval Surface Warfare Center Indian Head Division (NSWC-IH)  
101 Strauss Avenue, Code 061A  
Indian Head, MD 20640-5035  
(301) 743-6525

The following participating organizations are also located in Maryland.

Armed Forces Radiobiology Research Institute (AFRRI), Bethesda; Army Research Laboratory (ARL-A), Adelphi; Naval Air Warfare Center Aircraft Division (NAWC-AD), Patuxent River; Naval Dental Research Institute, Bethesda; Naval Medical Research Institute, Bethesda; Naval Surface Warfare Centers in Carderock (NSWC-C); Uniformed Services University of the Health Sciences, Bethesda; United States Naval Academy (USNA), Annapolis; Walter Reed Army Institute of Research (WRAIR) in Gaithersburg, Rockville, and Wheaton.

For more information on the above programs, contact:

Marylin Krupsaw  
GWU/SEAS  
Science and Engineering Apprentice Program  
707 22nd Street NW  
Washington, DC 20052  
(202) 994-2234

### U.S. Naval Academy, Annapolis (USNA)

USNA participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations in the area.

Patricia Barrows  
U.S. Naval Academy  
Human Programs Office, Stop 1J  
121 Blake Road  
Annapolis, MD 21402-5000  
(410) 293-2293

## ► Department of Education (ED)

**Eisenhower State Coordinators**  
Eisenhower State Coordinators administer

the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Donna Crabbe-Watts and Gary Heath  
Eisenhower Professional Development Program  
Maryland Department of Education  
200 West Baltimore Street  
Baltimore, MD 21201-2595  
(410) 767-0355 or 0324 / Fax: (410) 333-2379

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Linarda Tyler, Director of Grants and Contracts  
Eisenhower Professional Development Program  
Maryland Higher Education Commission  
16 Francis Street  
Annapolis, MD 21401-1781  
(410) 974-2467 / Fax: (410) 974-3513

### Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Keith Kershner, Director  
Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education  
444 North Third Street  
Philadelphia, PA 19123-4107  
(215) 574-9300 / Fax: (215) 574-0133  
E-mail: kershner@rbs.org  
<http://www.rbs.org/eisenhower/>

### Mid-Atlantic Laboratory for Student Success (LSS)

LSS identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Margaret Wang, Executive Director  
Laboratory for Student Success  
Temple University Center for Research in Human Development and Education  
933 Ritter Annex  
1301 Cecil B. Moore Avenue  
Philadelphia, PA 19122-6091  
(215) 204-3030 / Fax: (215) 204-5130  
(800) 892-5550  
<http://www.temple.edu/departments/LSS/>



### **Northeast Regional Technology in Education Consortium (NetTech)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribaud, Co-Directors, NetTech  
City University of New York  
555 West 57th Street, 16th Floor  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

### **► Department of Energy (DOE)**

#### **Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)**

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divi-

sions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

### **► Department of the Interior (DOI)**

#### **Assateague Island National Seashore**

Onsite environmental activities such as beachcombing and marsh studies are available to students at all grade levels at the seashore. Previsit curriculum materials and guided tours are also available.

Other programs include the following:

- **Dune What Comes Naturally Puppet Show** introduces students to the dynamic nature of the barrier island ecosystem through the characters of Lorna Dune and her friends. Ecological content is presented in a humorous, interactive way.
- **Grade 1 Aquarium/Beachcombers Talk** is a curriculum-based program that introduces material associated with food chains and homes. A class spends half an hour in a talk at the aquariums and half an hour at one in the Beachcomber Room. The talks are led by naturalists. Students also participate in a pantomime story about the food chain.
- **Salt Marsh Study** is designed to introduce the importance of the salt marsh ecosystem, complex inter-connections, and general ecological principles. Students use seine nets in the bay for an up-close look at this productive area.

Rachelle Daigneault, Education Coordinator  
Assateague Island National Seashore  
7206 National Seashore Lane, Route 611  
Berlin, MD 21811  
(410) 641-1443

#### **Blackwater National Wildlife Refuge**

In addition to guided walks and bus tours, the refuge also offers summer environmental education programs.

Outdoor Recreation Planner  
Blackwater National Wildlife Refuge  
2145 Key Wallace Drive  
Cambridge, MD 21613  
(410) 228-2677 / Fax: (410) 228-3261

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Catoctin Mountain Park**

Deer Discovery is an interactive computer program; half the program features deer ecology and the other half has students select elements to design their own forest. Concepts introduced include deer management, predator/prey relationships, competitor species, and habitats. The program, which is specific to Catoctin Mountain Park, also features the ability to print a report of the Design-a-Forest activity. A PC version of the program is available for loan by mail.

Another interactive computer program, National Park Links to the Chesapeake Bay, helps students realize the impact of their everyday decisions on the Chesapeake Bay ecosystem. Students travel from one of six national parks to the Chesapeake Bay making water quality decisions on their trip. Koala-T, a water droplet character, leads students through the program. At the end of the journey, the results of the students' decisions are displayed on a graph indicating the water quality rating. A teacher guide is provided. PC and Mac versions are available for loan through the mail.

Roger G. Steintl, Chief Ranger  
Catoctin Mountain Park  
6602 Foxville Road  
Thurmont, MD 21788-1598  
(301) 663-9330 / Fax: (301) 271-2764

#### **Chesapeake Bay Field Office**

The Watershed Education Kit includes a

poster of the Chesapeake Bay drainage, a student activity guide, and student work maps. Through a variety of activities that incorporate math, science, social studies, and language arts, students are introduced to many issues affecting the watershed.

Rich Mason, Education Biologist  
Chesapeake Bay Field Office  
177 Admiral Cochrane Drive  
Annapolis, MD 21401  
(410) 573-4584 / Fax: (410) 224-2781

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

Office of Communications  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968  
<http://www.mms.gov/>

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Earl Hodil, Project WILD Coordinator  
Fish, Heritage, and Wildlife Administration  
Tawes State Office Building  
580 Taylor Avenue  
Annapolis, MD 21401  
(410) 974-3195 / Fax: (410) 974-3587

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Eugene A. Conti, Secretary of Labor  
Department of Labor, Licensing  
and Regulation  
217 East Redwood Street  
Baltimore, MD 21202  
(410) 333-6901 / Fax: (410) 333-8628

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include:

► **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

► **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

► **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA edu-

cation materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Abraham D. Spinak, Director  
University of Maryland Eastern Shore  
Airway Science Program  
Princess Anne, MD 21853-1299  
(401) 651-6489

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Bonnie Smith and Nan Ides, Environmental Education Coordinators  
Environmental Protection Agency  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 / Fax: (215) 566-5102

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 3  
Nan Ides and Larry Brown  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 or 5527 / Fax: (215) 566-5104

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laser discs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-8570

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130  
Greenbelt, MD 20771-0001  
(301) 286-7206

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Maryland Space Grant Consortium  
Bloomberg Center for Physics and Astronomy  
3400 North Charles Street  
Baltimore, MD 21218-2695  
(410) 516-7350

## ► National Science Foundation (NSF)

### Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community

groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Jonathan Wilson  
Morgan State University  
1700 Coldspring Lane  
Baltimore, MD 21251  
(410) 319-3304 or 3313 / Fax: (410) 319-3324  
E-mail: jwilson@jewel.morgan.edu

## ► Smithsonian Institution

### Smithsonian Environmental Research Center

The center occupies 2,600 acres of the Rhode River tidal river system and is part of a network of sites conducting ecological research relevant to their geographic regions. A broad range of educational activities include teacher-led field trips, self-guided nature trails, guided tours, and workshops. Research opportunities are available for student interns and professionals.

A. Mark Haddon  
Smithsonian Environmental Research Center  
PO Box 28  
Edgewater, MD 21037  
(301) 261-4190 ext. 218  
Fax: (301) 261-7954  
E-mail: haddon@serc.si.edu  
<http://www.serc.si.edu/>

Joni Elliot  
New Jersey Department of Agriculture  
CN 330  
Trenton, NJ 08625  
(609) 292-8897 or 633-7463  
Fax: (609) 292-3978

### Career Enrichment Program

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, and seniors in the mid-Atlantic states, who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

## ► Department of Commerce (DOC)

### Jacques Cousteau National Estuarine Research Reserve

Programs and interpretive services are offered for resource managers, school groups, and the general public. Teacher enhancement programs are offered for grades K-12.

Janice McDonnell, Education Coordinator  
Jacques Cousteau National Estuarine Research Reserve  
Institute of Marine and Coastal Sciences  
Rutgers University  
71 Dudley Road  
New Brunswick, NJ 08903  
(732) 932-9484 / Fax: (732) 932-8578  
E-mail: mcdonnel@imcs.rutgers.edu

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

## New Jersey

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Richard W. Clark, State 4-H Leader  
Waller Hall, Cook College  
PO Box 231  
New Brunswick, NJ 08903  
(908) 932-9704 / Fax: (908) 932-7541  
E-mail: clark@aesop.rutgers.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Bill Hall  
Delaware Sea Grant  
700 Pilottown Road  
Lewes, DE 19958  
(302) 645-4253 / Fax: (302) 645-4007

## ► Department of Defense (DoD)

### Armament Research, Development, and Engineering Center

The center offers both student employment and apprenticeship programs, as well as outreach assistance to nearby schools. Special tours of the arsenal museum are also available.

U.S. Army, ARDEC  
Public Affairs Office  
Picatinny Arsenal, NJ 07806-5000  
(973) 724-6365

### Science and Engineering Apprentice Program

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near the university. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer.

Connie Zimmerman  
U.S. Army CECOM  
Research, Development and Engineering Center  
Attn: AMSEL-RD-ADO-MS  
Ft. Monmouth, NJ 07703-5200  
(908) 427-2204

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Iris Nagler  
Eisenhower Professional Development Program  
New Jersey Department of Education  
100 Riverview Plaza  
P.O. Box 500  
Trenton, NJ 08625-0500  
(609) 984-6031 / Fax: (609) 292-7276

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the

Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Maria Rosado, Assistant Director  
Eisenhower Professional Development Program  
New Jersey Department of Education  
Division of Academic Programs and Standards  
240 West State Street, CN 500  
Trenton, NJ 08625  
(609) 633-8014 or 984-6031  
Fax: (609) 633-9825

### Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Keith Kershner, Director  
Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education  
444 North Third Street  
Philadelphia, PA 19123-4107  
(215) 574-9300 / Fax: (215) 574-0133  
E-mail: kershner@rbs.org  
<http://www.rbs.org/eisenhower/>

### Mid-Atlantic Laboratory for Student Success (LSS)

LSS identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Margaret Wang, Executive Director  
Laboratory for Student Success  
Temple University Center for Research in Human Development and Education  
933 Ritter Annex  
1301 Cecil B. Moore Avenue  
Philadelphia, PA 19122-6091  
(215) 204-3030 / Fax: (215) 204-5130  
(800) 892-5550  
<http://www.temple.edu/departments/LSS/>

### Northeast Regional Technology in Education Consortium (NetTech)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

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555 West 57th Street, 16th Floor  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

## ► Department of Energy (DOE)

### Princeton Plasma Physics Laboratory

The laboratory welcomes field trips and provides guided tours of its facility. It also sponsors summer teacher enhancement institutes for New Jersey and Pennsylvania teachers. Research opportunities are available for undergraduates across the United States. The Science on Saturdays lecture series, a nine-week program (January–March) geared toward high school students, is open to all.

Diane Carroll, Head  
Science Education Program  
Princeton Plasma Physics Laboratory  
James Forrestal Campus  
Princeton University  
PO Box 451, Route 1  
Princeton, NJ 08543-0451  
(609) 243-2107 / Fax: (609) 243-2112  
E-mail: dcarroll@pppl.gov  
<http://www.pppl.gov/>

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Gateway National Recreation Area

Programs are intended primarily for grades 4–6, although they can be modified for other



grade levels. All education visits require advance notification. The Ecology Village Camping Program allows students and teachers to explore the environment, sleep in tents, prepare meals outdoors, and practice teamwork at an Ecology Village campsite. Classes study science, nature, and history at the shore and in the uplands habitat. This program requires completion of a teacher training program offered once a year.

Educational opportunities at Sandy Hook include programs in oceanography, geology, and the marine environment. These programs educate teachers, students, families, and other groups about the ocean and its resources. Teacher materials are available. The Breezy Point, Jamaica Bay, and Staten Island sites all offer varied opportunities for natural and technological science study. Habitats include marsh, uplands, and bay. In addition, the Breezy Point district contains barrier beach and dune habitats for exploration. Free teacher workshops may be required prior to class visits. A limited number of ranger-led programs are offered.

John Lancos, Education Specialist  
National Park Service  
Gateway National Recreation Area  
HQ, Floyd Bennett Field  
Brooklyn, NY 11234  
(718) 354-4560 / Fax: (718) 354-4567  
E-mail: john\_lancos@nps.gov

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Education Coordinator  
Office of Communications  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical  
Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186  
<http://www.mms.gov/>

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Miriam Dunne, Project WILD Coordinator  
Division of Fish, Game, and Wildlife  
Request Center, Rural Route 1, Box 389  
Oxford, NJ 07863  
(908) 637-4125 / Fax: (908) 637-6735

Larry Sarner, Aquatic WILD Coordinator  
Division of Fish, Game and Wildlife  
PO Box 418  
Port Republic, NJ 08241  
(609) 748-2031 / Fax: (609) 748-2032

### **U.S. Fish and Wildlife Service**

Earth Stewards is an innovative environmental education program developed by the U.S. Fish and Wildlife Service, the National Biological Service, and the National Fish and Wildlife Foundation. The program's goal is to educate students at all grade levels about varied natural resource issues in their community via a course curriculum and hands-on stewardship activities.

Earth Stewards Coordinator  
U.S. Fish and Wildlife Service  
New Jersey Field Office  
927 North Main Street, Building D  
Pleasantville, NJ 08232  
(609) 646-9310 / Fax: (609) 646-0352

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Melvin Gelade, Commissioner  
State of New Jersey Department of Labor  
CN055  
Trenton, NJ 08629-0055  
(609) 292-2323 / Fax: (609) 633-9271

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program

provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

Carleen Genna, ACM-120  
FAA Aviation Education Representative  
Atlantic City International Airport  
Human Resource Management Division  
Atlantic City, NJ 08405  
(609) 485-6630 / Fax: (609) 485-4391

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Martha Poci  
Aviation Education Resource Center  
Northeast Curriculum Coordination Center  
Division of Vocational Education  
Crest Way  
Aberdeen, NJ 07747  
(908) 290-1900

Paul Rigby  
Aviation Education Resource Center  
Atlantic Community College  
5100 Black Horse Pike  
Mays Landing, NJ 08330  
(609) 343-5113

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Terry Ippolito, Environmental Education Coordinator  
Environmental Protection Agency  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3671 / Fax: (212) 637-4445

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 2  
Terry Ippolito  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3671 / Fax: (212) 637-4445

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-8570

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130  
Greenbelt, MD 20771-0001  
(301) 286-7206

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Georgian Court College  
NASA Regional Educator Resource Center  
900 Lakewood Avenue  
Lakewood, NJ 08701-2697  
(732) 364-2200, ext. 419

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

New Jersey Space Grant Consortium  
Stevens Institute of Technology  
Castle Point on the Hudson  
Hoboken, NJ 07030  
(201) 216-8964

## ► National Science Foundation (NSF)

### Statewide Systemic Initiatives (SSI) Program

New Jersey's Statewide Systemic Initiatives Program strengthens mathematics, science, and technology education in grades K-8 through professional support networks among schools and 14 partner institutions. The establishment of models for K-12 reform is being achieved through partnerships representing a cross section of the state's economically and culturally diverse resources. The

program includes a set of new policy initiatives and state commitments.

Deborah Cook  
Building 3870 - Busch Campus  
Rutgers University  
Piscataway, NJ 08855  
(908) 445-2811 / Fax: (908) 445-2848  
E-mail: cookd@dimacs.rutgers.edu

# Pennsylvania

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Edgar Yoder, State 4-H Leader and Department Head  
4-H and Youth Development  
The Pennsylvania State University  
323 Agriculture Administration  
University Park, PA 16802-2601  
(814) 865-1688 / Fax: (814) 863-4753  
E-mail: ed\_yoder@agcs.cas.psu.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Pat Sueck  
534 Kennedy Road  
Arrville, PA 17302  
(717) 862-3486

### Career Enrichment Program

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, and seniors in the mid-Atlantic states, who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

► **Department of Defense  
(DoD)**

**Science and Engineering  
Apprentice Program**

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near the participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer.

Roseann Castonguay  
Naval Surface Warfare Center  
Philadelphia (NSWC-P)  
EEO, Code 3250.2  
Philadelphia, PA 19112-5087  
(215) 897-7642

► **Department of Education  
(ED)**

**Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Anthony Tezik  
Eisenhower Mathematics and Science  
Program  
Division of Federal Programs  
Pennsylvania Department of Education  
333 Market Street, Seventh Floor  
Harrisburg, PA 17126-0333  
(717) 783-6903 / Fax: (717) 783-6900

**Eisenhower State Coordinators  
for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Linda J. Benedetto  
Eisenhower Professional Development  
Program  
Pennsylvania Department of Education  
Bureau of Postsecondary Services  
333 Market Street, 12th Floor  
Harrisburg, PA 17126-0333  
(717) 772-3623 / Fax: (717) 783-0583

**Mid-Atlantic Eisenhower  
Consortium for Mathematics and  
Science Education**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Keith Kershner, Director  
Mid-Atlantic Eisenhower Consortium for  
Mathematics and Science Education  
444 North Third Street  
Philadelphia, PA 19123-4107  
(215) 574-9300 / Fax: (215) 574-0133  
E-mail: [kershner@rbs.org](mailto:kershner@rbs.org)  
<http://www.rbs.org/eisenhower/>

**Mid-Atlantic Laboratory  
for Student Success (LSS)**

LSS identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Margaret Wang, Executive Director  
Laboratory for Student Success  
Temple University Center for Research in  
Human Development and Education  
933 Ritter Annex  
1301 Cecil B. Moore Avenue  
Philadelphia, PA 19122-6091  
(215) 204-3030 / Fax: (215) 204-5130  
(800) 892-5550  
<http://www.temple.edu/departments/LSS/>

**Northeast Regional Technology in  
Education Consortium (NetTech)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribaud, Co-Directors, NetTech  
City University of New York  
555 West 57th Street, 16th Floor  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: [blbbh@cunyvm.cuny.edu](mailto:blbbh@cunyvm.cuny.edu)  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: [Kathy\\_Fuller@ed.gov](mailto:Kathy_Fuller@ed.gov)

► **Department of Energy  
(DOE)**

**Appalachian Regional  
Commission (ARC) and Oak  
Ridge National Laboratory  
(ORNL)**

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: [9LC@ornl.gov](mailto:9LC@ornl.gov)

## Federal Energy Technology Center

This center conducts research on fossil energy, clean coal technology, and environmental protection.

David Wildman, Senior Management  
Technical Advisor  
Federal Energy Technology Center  
PO Box 10940  
Pittsburgh, PA 15236  
(412) 892-4913 / Fax: (412) 892-4152  
E-mail: wildman@fetc.doe.gov

## ► Department of the Interior (DOI)

### Allegheny Portage Railroad National Historic Site

A Clash of Societies is a multimedia program dealing with the breaking of the South Fork Dam, which resulted in the Johnstown Flood of 1889.

Gregory J. Zaborowski, Education Specialist  
Allegheny Portage Railroad NHS  
PO Box 189  
Cresson, PA 16630  
(814) 886-6100 or 886-6153  
Fax: (814) 886-6117

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Erie National Wildlife Refuge

Instruction in the Endangered Species program is designed to increase the awareness of endangered species, the reasons they are endangered, and what is being done to help their recovery. The program has hands-on activities for students. The Wildlife Education Program consists of four separate courses (including Project WILD and Project Learning Tree) offering educators an opportunity to develop awareness, knowledge, and skills related to fish and wetland environments, plant species, animals and their habitats, and photography as a tool for studying the natural world. The Junior Duck Stamp Conservation and Design Program is a dynamic, active arts curriculum to teach wetlands and waterfowl conservation to students in grades K-12. This program is designed to incorporate scientific and wildlife management principles into a visual arts curriculum.

This nontraditional pairing of subjects brings new interest to both the sciences and the arts.

Janet A. Marvin, Outdoor Recreation Planner  
Erie NWR  
RD 1, Wood Duck Lane  
Guys Mills, PA 16327  
(814) 789-3585 / Fax: (814) 789-2909  
E-mail: r5rw\_enwr@mail.fws.gov

### John Heinz National Wildlife Refuge

In addition to an environmental education materials library, the refuge offers several teacher workshops that promote teacher use of the refuge. Demonstration activities and consultation explain how to use the refuge.

Outdoor Recreation Planner  
John Heinz National Wildlife Refuge  
Scott Plaza Two, Suite 104  
Philadelphia, PA 19113  
(215) 521-0662 / Fax: (215) 521-0611

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Theresa Alberici, Project WILD Coordinator  
Division of Information and Education  
Pennsylvania Game Commission  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797  
(717) 787-6286 / Fax: (717) 783-2411

Carl Richardson  
Project WILD Coordinator  
Pennsylvania Fish and Boat Commission  
PO Box 67000  
Harrisburg, PA 17106-7000  
(717) 557-4518 / Fax: (717) 557-4549

### Upper Delaware Scenic and Recreational River

Programs include guided walks that focus primarily on the river's ecology. In-school presentations may be requested. In the Junior Ranger Program, students learn about the Delaware River both environmentally and culturally. The activities, some of which are hands-on, cover such topics as water quality, river safety, the Roebling Aqueduct, and Zane Grey.

Ingrid A. Peterec, Education Coordinator  
Upper Delaware Scenic and Recreational River  
RR2 Box 322  
Beach Lake, PA 18405  
(717) 685-4871 / Fax: (717) 685-4874

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Alan R. Williamson, Deputy Secretary for  
Employment Security and Job Training  
Pennsylvania Department of Labor and  
Industry  
Seventh and Forster Streets, Room 1700  
Harrisburg, PA 17120  
(717) 787-3907 / Fax: (717) 772-8826

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.



Mary Ann Poindexter, AEA-60  
FAA Eastern Region  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Robert Powell, Assistant Professor  
Community College of Beaver County  
Aviation Sciences Center  
125 Cessna Drive  
Beaver Falls, PA 15010-1080  
(412) 847-7000

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Bonnie Smith and Nan Ides, Environmental  
Education Coordinators  
Environmental Protection Agency  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 / Fax: (215) 566-5102

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for

national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 3  
Nan Ides and Larry Brown  
841 Chestnut Street (3EA20)  
Philadelphia, PA 19107  
(215) 566-5546 or 5527 / Fax: (215) 566-5104

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-8570

#### **NASA Field Centers**

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Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130  
Greenbelt, MD 20771-0001  
(301) 286-7206

#### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

University of Pittsburgh School  
of Education  
NASA Regional Educator Resource Center  
230 South Bouquet Street  
Pittsburgh, PA 15260  
(412) 648-7558

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Pennsylvania Space Grant Consortium  
The Pennsylvania State University  
101 South Frear  
University Park, PA 16802  
(814) 863-7687

### **► National Science Foundation (NSF)**

#### **Urban Systemic Initiatives (USI) Program**

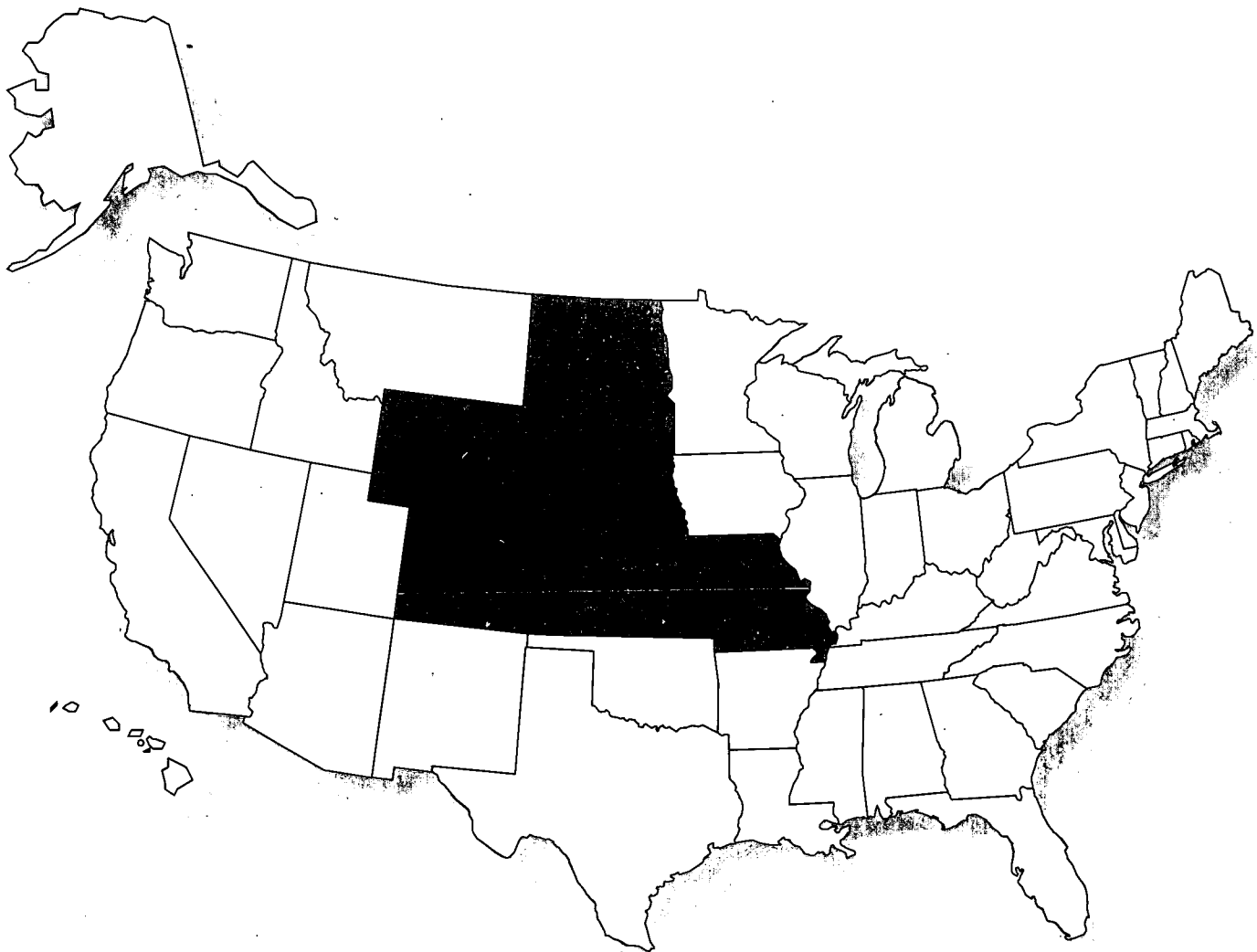
USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Clara Tolbert  
The Philadelphia Board of Education  
21st Street and South of the Parkway  
Philadelphia, PA 19103  
(215) 299-7840 / Fax: (215) 299-3472  
E-mail: cttolbert@phila.k12.pa.us

- ▶ Colorado
- ▶ Kansas
- ▶ Missouri
- ▶ Nebraska
- ▶ North Dakota
- ▶ South Dakota
- ▶ Wyoming

# Mid-continent Region

➔ **Eisenhower High Plains Consortium  
for Mathematics and Science**



**T**he Eisenhower High Plains Consortium (HPC) for Mathematics and Science at McREL is one of the 10 Eisenhower Mathematics and Science Regional Consortia established by the U.S. Department of Education. The National Network of Eisenhower Regional Consortia and the Eisenhower National Clearinghouse for Mathematics and Science Education form a coordinated, field-based national infrastructure to promote systemic educational reform. The consortium and the Mid-continent Regional Educational Laboratory (McREL) serve a seven-state region. HPC enhances and builds on existing resources, creating new partnerships that span district and state boundaries and link private and public schools, businesses, and industries. The consortium facilitates ongoing projects, links programs through established communication networks, and maximizes the impact of existing resources in the seven-state region. Efforts are focused on four specific functions: communication, professional development, curriculum frameworks, and institutionalization.

## Communication

HPC promotes the use of electronic communication both within each state and within the region. Every attempt is made to work collaboratively with partners in each state to make technology more accessible to teachers and students. HPC has set up a listserv for mathematics educators that is accessible on the Internet. Conference calls initiated by the consortium are used to promote communication among job-alike groups, such as the Statewide Systemic Initiative (SSI) state coordinators. HPC also serves as a facilitator on a number of topics to various groups throughout the region.

## Professional Development

HPC has worked with key groups in each state, including the state education agency, to aid in the coordination of multiple state-level initiatives. These initiatives include emerging state curriculum frameworks and the teacher training necessary to refine, adapt, adopt, and implement the frameworks at the local level. Upon request, HPC also provides professional development on alternative assessment and curriculum framework development to numerous school districts. Professional development opportunities with optional graduate

credit are being provided or cosponsored by HPC during the summer in several states. HPC staff expertise in mathematics and science serves as a resource for teachers from kindergarten through post-secondary school.

## Curriculum Frameworks

In the area of curriculum framework development and refinement, HPC provides staff expertise and two Laboratory Network Program documents, *Curriculum Frameworks Analysis Tool* and *A Summary of Analyzed State Curriculum Frameworks*. HPC also has worked closely with state groups to facilitate the planning and writing of various grants to assist the state framework development process.

## Institutionalization

In the area of institutionalization, the state-level advisory teams are establishing a coordinated professional development effort within each state. Additionally, the shift from producing an HPC newsletter to submitting articles to state-level educational newsletters reflects an institutionalization process.

To assist teachers in their efforts to improve instructional practice, HPC seeks to identify "Promising Practices." To date, the process has resulted in the identification of five programs:

- ▶ **CMEA-MESA** is a multidisciplinary studies program in Denver, Colorado. The program develops interest in science, engineering, and related fields, targeting minority student participation from grades 6–12. The program stimulates career awareness and motivation through field trips, role model speakers, competitions, incentive awards, college and career counseling, summer enrichment opportunities, and internships.
- ▶ **MathVantage** is a product of Nebraska mathematics teachers under the direction of the Nebraska Mathematics and Science Coalition in Lincoln. MathVantage materials target seventh and eighth grade students, presenting mathematics from a different perspective—a different "vantage" point. These materials demonstrate a relevance to the student's life and emphasize active participation.

- ▶ **Teaching Science Concepts Using Discrepant Events** from Kansas State University in Manhattan is a compilation of more than 250 discrepant scientific events that can be used by teachers of Earth science, physics, chemistry, and biology in upper-elementary or middle schools to stimulate students' interest and motivation. These discrepant events are written as hands-on investigation activities and minds-on exercises.
- ▶ **Small Scale Science-STAR<sup>3</sup> Program** provides teachers of middle-level science (grades 5–9) with the necessary confidence and skills to employ small-scale science in the classroom. The program comprises an inquiry-based series of hands-on experiments that have been used successfully from upper-elementary through university classrooms.
- ▶ **K–6 Science and Mathematics Enhancement Program (KSAM)** from Southeast Missouri State University encourages use of an effective, process-based instructional strategy in K–6 science and mathematics. KSAM provides teachers with process-based activities and training in addition to pertinent materials and support.

For additional information about these or other promising practices from around the country, contact HPC.

**John Sutton**  
*Senior Director/Mathematics and Collaboration*

**Alice Krueger**  
*Senior Associate/Science and Collaboration*

**Arlene Mitchell**  
*Senior Associate/Mathematics and Action Research*

**Elaine DeBassige**  
*Program Associate/Nature Education Initiatives/Informal Education*

**Martha Henry**  
*Senior Associate/Science and Collaboration*

**Jeff Johnson**  
*Senior Associate/Technology, Mathematics, and Case Studies*

**Phyllis Thomas**  
*Senior Associate/Evaluation*

**Greg Rawls**  
*Senior Associate/Science, Technology, and Collaboration*

**Deborah Jordan**  
*Senior Associate/Science, Assessment, and Collaboration*

Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/hpc/>

## Colorado

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Doug Steele, Assistant Director,  
4-H Youth Development  
Colorado State University  
Colorado CES  
123 Aylesworth Hall, NW  
Fort Collins, CO 80523-4050  
(970) 491-6421 / Fax: (970) 491-5108  
E-mail: [dsteel@vines.colostate.edu](mailto:dsteel@vines.colostate.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Helen Davis  
Colorado Department of Agriculture  
700 Kipling, #4000  
Lakewood, CO 80215-5894  
(303) 239-4114 / Fax: (303) 866-4073

Bette Blinde  
Colorado Foundation for Agriculture  
28276 WRC15  
Windsor, CO 80550  
(303) 686-7806

### ► Department of Commerce (DOC)

#### Environmental Research Laboratories

These laboratories offer guided tours, curriculum materials, and in-class presentations.

Carol Knight  
Office of Oceanic and Atmospheric Research  
National Oceanic and Atmospheric Administration  
Environmental Research Laboratories  
325 Broadway  
Boulder, CO 80303-3328  
(303) 497-6401

#### National Institute of Standards and Technology Student Programs

These programs provide employment for high school, undergraduate, and graduate level students who are pursuing courses in physical sciences, engineering, computer science, or mathematics.

Mary Bruner  
National Institute of Standards and Technology  
325 Broadway, MS 360.06  
Boulder, CO 80303  
(303) 497-5507

### ► Department of Education (ED)

#### Eisenhower High Plains Consortium for Mathematics and Science

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: [jsutton@mcrel.org](mailto:jsutton@mcrel.org)  
<http://www.mcrel.org/hpc/>

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Matty Pollard-Cole  
Eisenhower Professional Development Program  
Colorado Department of Education  
201 East Colfax Avenue  
Denver, CO 80203  
(303) 866-6763 / Fax: (303) 866-6892

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

William Kuepper  
Colorado Commission on Higher Education  
1300 Broadway, Second Floor  
Denver, CO 80203  
(303) 866-2723 / Fax: (303) 860-9750

#### Mid-continent Regional Educational Laboratory (McREL)

McREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/>

#### Pacific and Southwest Regional Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez,  
Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: [clmer@csulb.edu](mailto:clmer@csulb.edu)  
<http://psrtec.clmer.csulb.edu/>



Catherine Mozer Connor  
R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

## ► Department of Energy (DOE)

### Adventures in Supercomputing (AiS)

The AiS program is designed to foster and enhance the participation of diverse populations of high school students in mathematics, science, and computing.

Barbara G. Summers, Education Program  
Manager  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, MS 6366  
Oak Ridge, TN 37831-6366  
(423) 241-3705 / Fax: (423) 241-6776  
E-mail: summersbg@ornl.gov

### National Renewable Energy Laboratory (NREL)

NREL provides student and teacher information on renewable energy and energy efficiency. It conducts teacher workshops, student and teacher programs, and undergraduate research programs. The lab sponsors student competitions such as Junior Solar Sprint, Solar Bikerayce, Science Bowl, and an Earth Day Poster Contest. NREL is the national manager of the Junior Solar Sprint competition, which has 63 regional competitions in 31 states.

Linda Lung, Education Programs Manager  
1617 Cole Boulevard, Building 17  
Golden, CO 80401-3393  
(303) 275-3044 / Fax: (303) 275-3076  
(800) NEW-ENGY or (800) DOE-EREC  
E-mail: linda\_lung@nrel.gov  
<http://www.eren.doe.gov/>

### Rocky Flats Plant

This facility sponsors teacher workshops and programs for students, along with a variety of outreach assistance and support programs.

Gene McCarthy, Educational Outreach  
Coordinator  
Rocky Flats Plant  
Community Relations, Building 460  
PO Box 928  
Golden, CO 80402-0928  
(303) 966-2200 / Fax: (303) 966-6633  
E-mail: gene.mccarthy@rfets.gov

## Western Area Power Administration (WAPA)

WAPA conducts the Colorado Regional Science Bowl, an academic competition sponsored by DOE and the community. Held each February, the bowl encourages the study of science and mathematics and the pursuit of related careers. Participants in the competition include Native American and other minority students from the state of Colorado. The regional winner advances to the national competition, held each spring in Washington, DC.

John Crowfoot or Sandy Babecock  
WAPA Rocky Mountain Region  
Western Area Power Administration  
5555 East Crossroads, Boulevard 80537  
PO Box 3700  
Loveland, CO 80539  
(970) 490-7343 / Fax: (970) 490-7213  
E-mail: crow@wapa.gov

## ► Department of the Interior (DOI)

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Marion Malinowski  
Bureau of Land Management  
Colorado State Office  
2850 Youngfield Street  
Lakewood, CO 80215  
(303) 239-3749 / Fax: (303) 239-3808

### Bureau of Reclamation Environmental Education

A variety of environmental programs, with an emphasis on water resources, are offered to K-12 teachers and students. Subjects vary from a groundwater model to instant snow storms and wetlands in a pan. Programs are presented in the classroom as well as outdoors at laboratory schools, summer camps, and some visitor centers. The program currently operates in the states of California, Colorado, Montana, Nevada, Idaho, and Utah.

Edward Friedman, Federal Preservation  
Officer  
Denver Federal Center  
D-5650  
Denver, CO 80225  
(303) 236-1061 / Fax: (303) 236-0890

Theresa Taylor, Environmental Education  
Program Assistant  
Denver Federal Center, D-5100  
Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 262 / Fax: (303) 236-3573

## Bureau of Reclamation Hydraulic Laboratory

This lab offers tours and demonstrations of working models of reclamation projects, including modern and unique instrumentation and testing equipment used by engineers.

Phil Burgi  
Bureau of Reclamation  
PO Box 25007 (D-3700)  
Denver, CO 80225-0007  
(303) 236-5985 / Fax: (303) 236-4096

## Colorado National Monument

The monument offers guided walks and teacher guides that focus primarily on environmental education and geology. The Young Naturalists program consists of week-long workshops for youngsters ages 9-12 who are interested in learning about the environs of western Colorado. Each morning the group visits a different site with professional interpreters from agencies including USDA-Forest Service, Colorado Division of Wildlife, NPS, BLM, and U.S. Fish and Wildlife. Topics are See the Forest for the Trees; Water, Water Everywhere?; and Like Pieces in a Puzzle.

Ron Young, Chief of Interpretation  
Colorado National Monument Association  
Colorado National Monument  
Fruita, CO 81521  
(303) 858-3617

## Colorado River Hydroexplorer

In this program game, students guide a mini-submarine, Hydroexplorer, down the length of the Colorado River from its headwaters in Colorado, Utah, Wyoming, and New Mexico through Arizona, Nevada, and California to Mexico and the Sea of Cortez. Along the way, students study the many uses of the river: recreation, power generation, agriculture and irrigation, wildlife habitat protection, and urban use for industry and homes. They look at where the water comes from, how it carves the land, why it has sediments and salts in it, how it was explored, and how its waters have been divided by the states it flows through. Ultimately, students learn that since there are so many uses of the water and there is a limited supply, it is important to conserve water in their homes and schools.

Steve Jones, Water Conservation Manager  
PO Box 61470  
Boulder City, NV 89005  
(702) 293-8196 / Fax: (702) 293-8042

## Curecanti National Recreation Area

In the spring and fall, environmental education outreach programs are offered for grades K-8. Curriculum materials are provided for both teachers and students. Educators may choose in-class presentations or onsite day field trips. Curecanti National Recreation Area Environmental Education Outreach Program/Curecanti

Teacher Continuing Education Workshops are available. Opportunities include extensive year-round, onsite educational programs, field experiences, computer resource systems, onsite classrooms, college internship programs, GIS and Internet capability, and graduate teacher continuing education workshops.

Phil Zichterman, Chief, Interpretation and Education  
National Park Service  
Curecanti National Recreation Area  
102 Elk Creek  
Gunnison, CO 81230  
(303) 641-2337, ext. 227 / Fax: (303) 641-3127  
E-mail: phil\_zichterman@cure.nps.gov

### **Dinosaur National Monument**

The Environmental Education Outreach Program focuses on how the Dinosaur National Monument preserves part of the ecosystem in which we live. The program discusses ecosystem workings, communities in the ecosystem, human impacts on the ecosystem, and how to sustain the ecosystem.

David Whitman, Chief of Interpretation  
Dinosaur National Monument  
4545 East Highway 40  
Dinosaur, CO 81610-9724  
(435) 789-2115

### **Earth Science Information Center, Lakewood**

This center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
Denver ESIC  
Denver Federal Center  
Box 25286, Building 810  
Denver, CO 80225-0046  
(303) 202-4200  
(800) USA-MAPS  
E-mail: infoservices@usgs.gov

### **Florissant Fossil Beds**

Orientation to the fossil beds is geared for all age groups with age-appropriate curriculum packets and activities. Also offered is the history of Colorado with an onsite visit to historic Homestead and other programs, including Exploring Ecosystems and Endangered Species. Half-day field seminars are given in the summer with varied topics. The teacher course is titled Introduction to the Natural Sciences.

Margaret Johnston, Chief Ranger  
Florissant Fossil Beds  
PO Box 185  
Florissant, CO 80816  
(719) 748-3253 / Fax: (719) 748-3164

### **Gunnison Resource and Environmental Education Network (GREEN)**

GREEN is made up of resource and education specialists from the BLM, U.S. Forest Service, National Park Service, Natural Resources Conservation Service, State Forest Service, State Division of Wildlife, County Weed District, Gunnison Soil Conservation District, Colorado State University, Mt. Meadows Research Center, and Western State College. Federal, state, and local environmental agencies, each with their unique mission, dedicate their collective resources to realize the common objective of improved information dissemination and education within Colorado's Gunnison Basin. These entities have been cooperating for the past five years to pursue mutually beneficial education and outreach goals and make the most of scarce environmental education resources.

Arden Anderson  
Gunnison Resource Area  
216 North Colorado  
Gunnison, CO 81230  
(907) 641-0471

### **Leave No Trace Task Force**

The task force includes interagency, private, and public groups dedicated to infusing the Four Corners Area with Leave No Trace ethics. Training is in June, July, and August.

Kristine Lancaster, Environmental Education Specialist  
BLM, San Juan Resource Area  
Federal Building, Room 402  
701 Camino Del Rio  
Durango, CO 81301  
(970) 385-1313 / Fax: (970) 385-1375

### **Mesa Verde National Park**

The park offers guided tours for educators. Programs concentrate primarily on anthropology and history. A teacher guide provides a series of suggested curricula and activities to enhance visits to the park. It also includes some travel/logistical information.

Sarah Craighead, Assistant Chief of Interpretation  
Mesa Verde National Park  
PO Box 8  
Mesa Verde National Park, CO 81330  
(303) 529-4475 / Fax: (303) 529-4498

### **Mid-Continent Ecological Science Center**

Programs include natural resources management courses that provide training for professional resource managers in areas such as instream flow, incremental methodology, habitat evolution procedures, managing environmental conflict, and supporting software.

Duane Asherin, Assistant Director  
Mid-Continent Ecological Science Center  
4512 McMurtry Avenue  
Fort Collins, CO 80525  
(303) 226-9402 / Fax: (303) 226-9230

### **Minerals Management Service (MMS) Regional Office**

This office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Royalty Management Program  
Minerals Management Service  
Office of Public Affairs  
1201 Elmwood Park Boulevard, MS 500  
PO Box 25165  
Lakewood, CO 80225  
(303) 231-3162 / Fax: (303) 231-3780

### **Morrow Point Dam**

Located on the Gunnison River, the visitor center offers information and self-guided tours of the facility.

Jayne Kelleher  
Public Affairs Office  
Upper Colorado Region  
Bureau of Reclamation  
PO Box 11568 (UC-140)  
Salt Lake City, UT 84147-0568  
(801) 524-6039

### **Museum of Archaeology, Regional History, and Native American Culture**

BLM presents a museum of archaeology, history, and Native American cultures, including the Ancestral Puebloan culture of the Four Corners region. Teaching resources include interactive permanent exhibits, two Pueblo archaeological sites, changing temporary exhibits, and a nature trail. Videos, artifact kits, and other materials are available for loan. A museum sales outlet features books, videos, computer programs, and classroom teaching units. Teachers planning a class visit receive an orientation packet.

Lou Ann Jacobson, Museum Director  
BLM, Anasazi Heritage Center  
27501 Highway 184  
Dolores, CO 81323  
(970) 882-4811 / Fax: (970) 882-7595  
E-mail: ljacobson@blm.co.gov

### **Outdoor Classroom**

This program involves natural field studies focusing on forestry, ecosystems, wetlands, and range. The San Juan environmental education coordinator works with teachers of students pre-K-12 to choose topics. Then an appropriate site, staff, and activities are chosen. All programs support standards-based education.

Kristine Lancaster, Environmental Education Specialist  
BLM, San Juan Resource Area  
Federal Building, Room 102  
701 Camino Del Rio  
Durango, CO 81301  
(970) 385-1313 / Fax: (970) 385-1375

### Pathways to Fishing

The program teaches children with little or no fishing experience about fishing basics, aquatic ecology, angler ethics, and fish biology.

David Smith  
BLM, Grand Junction District  
2815 H Road  
Grand Junction, CO 81506  
(970) 244-3052

Will Tully, Environmental Specialist  
Eastern Colorado Area Office  
11-56 West County Road, 18E  
Loveland, CO 80537  
(303) 962-4368 / Fax: (303) 663-3212

### Project Water Education for Teachers (WET)

Project WET is an interdisciplinary water education program intended to supplement a school's existing curriculum. Classroom-ready teaching aids being developed include activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Chris Bridges, Project WET Coordinator  
Colorado Water Conservation Board  
1313 Sherman Street, Room 721  
Denver, CO 80203  
(303) 866-3441

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Jeff Rucks, Acting Project WILD Coordinator  
Colorado Division of Wildlife  
6060 North Broadway  
Denver, CO 80216  
(303) 291-7262, ext. 7300 / Fax: (303) 294-0874

### Ridgeway Dam

The visitor center offers self-guided nature walks and educational programs for students.

Jayne Kelleher  
Public Affairs Office  
Upper Colorado Region  
Bureau of Reclamation  
PO Box 11568 (UC-140)  
Salt Lake City, UT 84147-0568  
(801) 524-6039

### Rocky Mountain Arsenal National Wildlife Refuge

The refuge is located 10 miles from downtown Denver on the doorstep of two million city dwellers who have few opportunities to connect with the natural world. The unique history of this site—as an area where indigenous people hunted and roamed; where settlers built ditches, ponds, and farmsteads; where the U.S. Army manufactured chemical weapons for use in World War II and during the Cold War; where private corporations created pesticides for agricultural use; and now where the U.S. Fish and Wildlife Service manages one of the nation's largest urban wildlife refuges—makes this a special place for examining the relationship of people with nature. The message of all educational activities is that people need to help overcome past environmental mistakes and take responsibility for making the refuge and elsewhere better places.

Service staff and volunteers lead environmental education programs for grades K-12 at the refuge. Programs are grade-specific and offered year round at no charge. Each teacher receives the *Rocky Mountain Arsenal National Wildlife Area Teacher Resource Guide* (developed in cooperation with the Denver Museum of Natural History), which includes pre- and post-visit activities for grades 4-12. As part of a cooperative agreement with the Fish and Wildlife Service, the Colorado Wildlife Federation conducts educational presentations in the schools to prepare students for their trips to the refuge. In FY94, 17,000 students participated in environmental education programs.

Supervisory Education Specialist  
U.S. Fish and Wildlife Service  
Rocky Mountain Arsenal NWR  
Building 11  
Commerce City, CO 80022-1748  
(303) 289-0232 / Fax: (303) 289-0579

### Rocky Mountain National Park

Programs at the park include guided nature tours and lectures that focus on geology, ecology, and environmental education.

Division of Interpretation  
Rocky Mountain National Park  
Estes Park, CO 80517  
(970) 586-1220

### Scientists in the Schools

Regional Office scientists adopt local schools and provide environmental education services to these schools through classroom presentations and involvement in school activities. Scientists attend optional training to enhance their teaching skills. Participants do not necessarily need a scientific background to be contributing members of the program.

Sheri Fetherman, Chief, Branch of Education and Visitor Services  
PO Box 25486, DFL  
Denver, CO 80225  
(303) 236-8145, ext. 649 / Fax: (303) 236-4792

### Speaker's Bureau

BLM staff make classroom visits to K-12 and college students, speaking on a variety of issues, including fire, sustainable forests, plants, animals, fish, threatened and endangered species, and air and water quality.

Kristine Lancaster, Environmental Education Specialist  
BLM, San Juan Resource Area  
Federal Building, Room 102  
701 Camino Del Rio  
Durango, CO 81301  
(970) 385-1313 / Fax: (970) 385-1375

### Texas Creek Riparian Area

In the Outdoor Classroom program, students travel to the Texas Creek Riparian Area to learn about fish sampling, macroinvertebrates, birds, ecosystems, and management of natural resources. Presenters are BLM and USFS employees and teachers.

Ken Smith  
Bureau of Land Management  
3170 East Main Street  
Canon City, CO 81212  
(719) 269-8500 / Fax: (719) 269-8599

### Water Resources Education Initiative

This U.S. Geological Survey program is developing water resources educational materials for students in grades K-12. Materials include a series of educational posters about water resources and a set of outreach notebooks for use by water resources professionals when visiting educational settings.

Steve Vandas, Hydrologist  
U.S. Geological Survey  
PO Box 25046, DFC, MS 414  
Denver, CO 80225  
(303) 236-4937 / Fax: (303) 236-4937

### Youth in Natural Resources (YNR)

YNR is a national program based in Silverton, Colorado. The mission of YNR is to foster an interest in and a sense of stewardship towards the state's natural resources. It provides environmental education and opportunities for natural resources summer employment for Colorado youth of diverse backgrounds. Students in grades 9-12 from Silverton area schools are eligible. Educational subjects include geography and all sciences.

Richard Speegle, Recreation Specialist  
BLM, San Juan Resource Area  
701 Camino Del Rio  
Durango, CO 81301  
(970) 247-4874 / Fax: (970) 385-1375



## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Judi Richendifer, Director  
Colorado Department of Labor  
and Employment  
Office of Employment and Training  
Two Park Central  
1515 Drapahoe Street  
Denver, CO 80222-2117  
(303) 620-4204 / Fax: (303) 620-4257

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and cross-talk sessions to exchange ideas on promoting aerospace education.

Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Jonathan R. Burke, Assistant Professor  
Aviation Education Resource Center  
Metropolitan State College of Denver  
Aerospace Science Department  
Campus Box 30, PO Box 173362  
Denver, CO 80217-3362  
(303) 556-2923

Jerry Brown, Educational Director  
Aviation Education Resource Center  
U.S. Space Foundation  
2860 South Circle Drive, Suite 2301  
Colorado Springs, CO 80906-4181  
(719) 576-8000

Herman Payton, ANM-14A, FAA Aviation  
Education Representative  
1601 Lind Avenue SW  
Renton, WA 98055-4056  
(206) 227-2079 / Fax: (206) 227-1010

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Cece Forget, Environmental Education  
Coordinator  
Environmental Protection Agency  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer

camp, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 8  
Cece Forget  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

U.S. Space Foundation  
NASA Regional Educator Resource Center  
2860 South Circle Drive, Suite 2301  
Colorado Springs, CO 80906-4184  
(719) 576-8000

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information Services  
Branch AP2  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257



## Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Colorado Space Grant Consortium  
University of Colorado at Boulder  
Campus Box 520  
Boulder, CO 80309-0520  
(303) 492-3141

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: [weaselp@worldnet.att.net](mailto:weaselp@worldnet.att.net)  
<http://hprsi.net/>

### Statewide Systemic Initiatives (SSI) Program

The Colorado SSI Program, CONNECT, seeks to develop a centralized enabling structure for bottom-up changes by making extensive use of existing successful efforts. It uses the state's local collaborative partnerships, regional collaboratives, and a state infrastructure to engage the public, link standards development with actual change, and provide leadership.

William Randall  
Colorado Department of Education  
1580 Logan Street, Suite 740  
Denver, CO 80203  
(303) 894-2146 / Fax: (303) 894-2141

# Kansas

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Gary W. Gerhard, Assistant Extension Director  
4-H and Youth Development  
Kansas State University  
Umberger Hall, Room 201  
Manhattan, KS 66506-3404  
(913) 532-5800 / Fax: (913) 532-5981  
E-mail: [ggerhard@oz.oznet.ksu.edu](mailto:ggerhard@oz.oznet.ksu.edu)

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Sandra Kramer  
Kansas State University  
124 Bluemont Hall  
Manhattan, KS 66506  
(913) 532-7946 / Fax: (913) 532-7304

## ► Department of Education (ED)

### Eisenhower High Plains Consortium for Mathematics and Science

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: [jsutton@mcrel.org](mailto:jsutton@mcrel.org)  
<http://www.mcrel.org/hpc/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program

focuses on sustained and intensive high-quality professional development through inservice programs.

Kenneth Gentry  
Eisenhower Professional Development Program  
Kansas Department of Education  
120 East 10th Street  
Topeka, KS 66612-1182  
(913) 296-2306 / Fax: (913) 296-1413

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

John F. Welsh or Timothy Peterson  
Eisenhower Professional Development Program  
Kansas Board of Regents  
700 SW Harrison Street, Suite 1410  
Topeka, KS 66603-3760  
(913) 296-3422 / Fax: (913) 296-3421

### Mid-continent Regional Educational Laboratory (McREL)

The Regional Educational Laboratory identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/>

### South Central Regional Technology in Education Consortium (SCR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Jim Nazworthy, Project Coordinator  
 Ron Aust and Jerry D. Chaffin, Co-Directors  
 SCR\*TEC  
 University of Kansas  
 Dole Human Development Building, Suite 2021  
 Lawrence, KS 66045  
 (785) 864-0699 / Fax: (785) 864-0704  
 (888) TEC-2001  
 E-mail: info@scrtec.org  
 http://scrtec.org/

Stephen Balkcom, R\*TEC Project Officer  
 U.S. Department of Education  
 Office of Educational Research  
 and Improvement  
 ORAD/SLSD, Room 504d  
 555 New Jersey Avenue NW  
 Washington, DC 20208-5644  
 (202) 219-2089  
 E-mail: sbalkcom@inet.ed.gov

## ► Department of the Interior (DOI)

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

David Mensing  
 Bureau of Land Management  
 PO Box 27115  
 Santa Fe, NM 87502-0115  
 (505) 438-7418 / Fax: (505) 438-7426

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Roland Stein, Project WILD Coordinator  
 Kansas Department of Wildlife and Parks  
 Rural Route 2, Box 54A  
 Pratt, KS 67124  
 (316) 672-5911 / Fax: (316) 672-6020

Connie Elpers, Project WILD Coordinator  
 455 North Main, 11th Floor  
 Wichita, KS 67202  
 (316) 722-7929 / Fax: (316) 268-4567

### Quivira National Wildlife Refuge

Workshops are available for teachers who wish to use the refuge as an outdoor classroom. It is also the state host for the Federal Junior Duck Stamp Program, a national arts curriculum/conservation program. Quivira receives artwork from Kansas students and hosts the contest judging. Curriculum guides and entry forms are sent out in the fall. These materials can be acquired from the refuge if teachers have not received them from Washington, DC.

Refuge Operations Specialist  
 Quivira NWR  
 Rural Route 3, Box 48A  
 Stafford, KS 67578  
 (316) 486-2393

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Jill Crumpacker, Director  
 Division of Employment and Training  
 Kansas Department of Human Resources  
 401 SW Topeka Boulevard  
 Topeka, KS 66603-3182  
 (913) 296-7874 / Fax: (913) 296-5112

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes

teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Maria Z. Navarro, ACE-41F  
 FAA Central Region  
 Room 1514  
 601 East 12th Street  
 Kansas City, MO 64106  
 (816) 426-6547 / Fax: (816) 426-3124

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Edward E. Berger, President  
 Aviation Education Resource Center  
 Hutchinson Community College  
 1300 North Plum  
 Hutchinson, KS 67501  
 (316) 665-3505

Karlene Propst  
 Aviation Education Resource Center  
 Kansas State University, Salina  
 Tullis Library  
 2408 Scanlan Avenue  
 Salina, KS 67401  
 (913) 825-0275

Patricia Altwegg  
 Cloud County Community College  
 Box 1002  
 2221 Campus Drive  
 Concordia, KS 66901  
 (800) 729-5101

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rowena Michaels, Environmental Education Coordinator  
 Environmental Protection Agency  
 726 Minnesota Avenue  
 Kansas City, KS 66101  
 (913) 551-7003 / Fax: (913) 551-7066

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 7  
Rowena Michaels  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Teachers may preview or copy NASA materials upon request.

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058-3696  
(281) 244-2129

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information Services  
Branch AP2  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Kansas Cosmosphere and Space Center  
NASA Regional Educator Resource Center  
1100 North Plum  
Hutchinson, KS 67501-1499  
(316) 662-2305

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Kansas Space Grant Consortium  
University of Kansas  
Department of Aerospace Engineering  
2004 Learned Hall  
Lawrence, KS 66045  
(913) 864-4265

## **Missouri**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

L. Jo Turner, Director, 4-H Youth  
University of Missouri  
212 Whitten Hall  
Columbia, MO 65211  
(573) 882-7430 / Fax: (573) 884-4225  
E-mail: [turnerj@ext.missouri.edu](mailto:turnerj@ext.missouri.edu)

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Diane Olsen  
Missouri Farm Bureau  
PO Box 658  
Jefferson City, MO 65102  
(573) 893-1400 / Fax: (573) 893-1540

### **► Department of Defense (DoD)**

#### **U.S. Army Engineer Museum**

This museum offers guided tours and educational programs that focus on aspects of military engineering. Reservations are required.

U.S. Army Engineer Museum  
Attention: ATZT-PTM-PM  
Fort Leonard Wood, MO 65473-5165  
(573) 596-0780

### **► Department of Education (ED)**

#### **Eisenhower High Plains Consortium for Mathematics and Science**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: [jsutton@mcrcel.org](mailto:jsutton@mcrcel.org)  
<http://www.mcrcel.org/hpc/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Stephen Barr, Director  
Mathematics and Science Program  
Eisenhower Professional Development Program  
Missouri Department of Elementary and Secondary Education  
PO Box 480  
Jefferson City, MO 65102  
(314) 751-3520 / Fax: (314) 751-9434

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for

Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Robert Stein  
Eisenhower Professional Development  
Program  
Missouri State Institutions of Higher  
Learning  
Coordinating Board of Higher Education  
3515 South Amazonas Street  
Jefferson City, MO 65109  
(573) 751-1794 / Fax: (573) 751-6635

### **Mid-continent Regional Educational Laboratory (McREL)**

The Regional Educational Laboratory identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational  
Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/>

### **South Central Regional Technology in Education Consortium (SCR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Jim Nazworthy, Project Coordinator  
Ron Aust and Jerry D. Chaffin, Co-Directors  
SCR\*TEC  
University of Kansas  
Dole Human Development Building,  
Suite 2021  
Lawrence, KS 66045  
(785) 864-0699 / Fax: (785) 864-0704  
(888) TEC-2001  
E-mail: [info@scrttec.org](mailto:info@scrttec.org)  
<http://scrttec.org/>

Stephen Balkcom, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research  
and Improvement  
ORAD/SLSD, Room 504d  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2089  
E-mail: [sbalkcom@inet.ed.gov](mailto:sbalkcom@inet.ed.gov)

### **► Department of Energy (DOE)**

#### **AlliedSignal Aerospace Company**

In addition to establishing partnerships with local schools, AlliedSignal participates in career and science fairs and academic contests and sends associates into area classrooms to talk about science related topics.

Jane Jankowski, Public Affairs Officer  
AlliedSignal Aerospace Company  
Federal Manufacturing and Technologies  
PO Box 419159, 2000 East 95th Street  
Kansas City, MO 64141-6159  
(816) 997-3579 / Fax: (816) 997-7259

### **► Department of the Interior (DOI)**

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Earth Science Information Center, Rolla**

The center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
1400 Independence Road, MS231  
Rolla, MO 65401-2602  
(573) 308-3500 / Fax: (573) 308-3615  
E-mail: [mcmcesic@usgs.gov](mailto:mcmcesic@usgs.gov)

#### **Environmental and Contaminants Center**

Earth Stewards is a pilot program that uses the expertise of the Fish and Wildlife Service and National Biological Service (NBS) to educate school children and communities about fish

and wildlife resources and local conservation problems. In the Storm Drain Stenciling Project, NBS scientists teach youth groups about watersheds, aquatic ecology, and community service. Activities lead to a community project: stenciling signs on storm drains to prevent dumping of hazardous waste.

Bill Mauck, Director  
Environmental and Contaminants Center  
4200 New Haven Road  
Columbia, MO 65201  
(573) 875-5399 / Fax: (573) 876-1896

#### **Ozark National Scenic Riverways**

Programs include guided nature walks, ranger lectures, and cave tours. In-school activities are also available upon request.

Division of Interpretation  
Ozark National Scenic Riverways  
PO Box 493  
Van Buren, MO 63965  
(573) 323-4236

#### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Bruce Evans  
Kansas City School District  
301 East Armour Boulevard, Suite 620  
Kansas City, MO 64111  
(816) 871-6397 / Fax: (816) 871-6393

Jim Jordan  
Education Department  
St. Louis Zoo, Forest Park  
St. Louis, MO 83110  
(314) 781-0900, ext. 340 / Fax: (314) 647-7969

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Julie Gibson, Director  
Division of Job Development and Training  
Missouri Department of Economic  
Development  
PO Box 1087, 2023 St. Mary's Boulevard  
Jefferson City, MO 65109-1087  
(573) 526-8229 / Fax: (573) 751-6765



## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
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- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Maria Z. Navarro, ACE-41F  
FAA Central Region  
Room 1514  
601 East 12th Street  
Kansas City, MO 64106  
(816) 426-6547 / Fax: (816) 426-3124

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Al Myers, Director  
Lincoln University  
Career Advisement Planning and Placement Center  
127 Thompkins  
Jefferson City, MO 65102-0029  
(314) 681-5477

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rowena Michaels, Environmental Education Coordinator  
Environmental Protection Agency  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 7  
Rowena Michaels  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational

materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

U.S. Space and Rocket Center  
NASA Educator Resource Center for  
Marshall Space Flight Center  
One Tranquility Base  
Huntsville, AL 35758  
(205) 544-5812

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jim Pruitt, Director  
Education Programs Office, MC CL01  
NASA Marshall Space Flight Center  
Huntsville, AL 35812-0001  
(205) 544-8800

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Missouri Space Grant Consortium  
101 Mechanical Engineering Building  
University of Missouri  
Rolla, MO 65401  
(314) 341-4671

## ► National Science Foundation (NSF)

### Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Shelia Williams  
St. Louis Public Schools  
Office of Systemic Reform  
721 Pendleton  
St. Louis, MO 63108  
(314) 535-3725, ext. 284

# Nebraska

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Gary L. Heusel, State 4-H Program Leader  
114 Agriculture Hall  
University of Nebraska  
Lincoln, NE 68583-0700  
(402) 472-9009 / Fax: (402) 472-9024  
E-mail: fhdyd001@unlvm.unl.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Ellen Hellerich  
Nebraska Farm Bureau Federation  
PO Box 80299  
Lincoln, NE 68501  
(402) 421-4400, ext. 2002  
Fax: (402) 421-4432

## ► Department of Education (ED)

### Eisenhower High Plains Consortium for Mathematics and Science

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: jsutton@mcnel.org  
<http://www.mcnel.org/hpc/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

James Woodland  
Eisenhower Professional Development Program  
Nebraska Department of Education  
PO Box 94987, 301 Centennial Mall South  
Lincoln, NE 68509  
(402) 471-4329 / Fax: (402) 471-0117

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Kathleen Fimple and Katie Lukesh  
Eisenhower Professional Development Program  
Coordinating Commission for Postsecondary Education  
PO Box 95005  
140 North Eighth Street  
Lincoln, NE 68509-5005  
(402) 471-0031 or 471-0023  
Fax: (402) 471-2886

### Mid-continent Regional Educational Laboratory (McREL)

The Regional Educational Laboratory identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcnel.org/>

### South Central Regional Technology in Education Consortium (SCR\*TEC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Jim Nazworthy, Project Coordinator  
Ron Aust and Jerry D. Chaffin, Co-Directors  
SCR\*TEC  
University of Kansas  
Dole Human Development Building, Suite 2021  
Lawrence, KS 66045  
(785) 864-0699 / Fax: (785) 864-0704  
(888) TEC-2001  
E-mail: [info@scrtec.org](mailto:info@scrtec.org)  
<http://scrtec.org/>

Stephen Balkcom, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504d  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2089  
E-mail: [sbalkcom@inet.ed.gov](mailto:sbalkcom@inet.ed.gov)

## ► Department of the Interior (DOI)

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Ranel Capron, Education Coordinator  
Bureau of Land Management  
5353 Yellowstone  
Cheyenne, WY 82009  
(307) 775-6108 / Fax: (307) 775-6082

### Gavins Point National Fish Hatchery and Aquarium

The hatchery/aquarium works with school districts, church groups, scout troops, senior citizens, and home school groups in South Dakota, Iowa, and Nebraska. Education opportunities are available in the areas of fishery biology, environmental education and awareness, watchable wildlife, aquatic science, and ecology. This program provides in-school and outdoor classroom learning opportunities.

Herb Bollig, Project Leader  
Gavins Point National Fish Hatchery and Aquarium  
Rural Route 1, Box 293  
Yankton, SD 57078  
(605) 665-3352 / Fax: (605) 665-3360

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Carl Wolfe, Project WILD Coordinator  
Game and Parks Commission  
PO Box 30370  
Lincoln, NE 68503  
(402) 471-0641 / Fax: (402) 471-5528

### **Scotts Bluff National Monument**

Rangers present in-school and onsite lectures on the geology and history of the monument.

Division of Interpretation  
Scotts Bluff National Monument  
PO Box 27  
Gering, NE 69341  
(308) 436-4340

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Fernando Lecuona, III, Deputy  
Commissioner of Labor  
Nebraska Department of Labor  
PO Box 94600, 550 South 16th Street  
Lincoln, NE 68509-4600  
(402) 471-9792 / Fax: (402) 471-2318

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

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and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

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Maria Z. Navarro, ACE-41F  
FAA Central Region  
Room 1514  
601 East 12th Street  
Kansas City, MO 64106  
(816) 426-6547 / Fax: (816) 426-3124

#### **FAA Aviation Education Resource Centers**

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Brent Bowen, Director  
Aviation Education Resource Center  
Aviation Institute  
University of Nebraska  
60th and Dodge  
Omaha, NE 68182-0508  
(402) 554-3424

Val J. Hruska, Aviation Specialist  
Aviation Education Resource Center  
Nebraska Department of Aeronautics  
PO Box 82088  
Lincoln, NE 68501-2088  
(402) 471-2371

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rowena Michaels, Environmental Education Coordinator  
Environmental Protection Agency  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

#### **The President's Environmental Youth Awards (PEYA) Program**

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EPA Region 7  
Rowena Michaels  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

## North Dakota

Billie A. Deason, Education Team Leader  
Education and Information Services  
Branch AP2  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

University of Nebraska at Omaha  
Mallory Kountze Planetarium  
Durham Science Center, Room 144  
60th and Dodge Streets  
Omaha, NE 68182-0266  
(800) 553-NASA

University of Nebraska State Museum  
NASA Regional Educator Resource Center  
14th and U Streets, 135 Morrill Hall  
Lincoln, NE 68588  
(402) 472-4525

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Nebraska Space Grant Consortium  
Aviation Institute  
Allwine Hall 422  
University of Nebraska at Omaha  
Omaha, NE 68182-0508  
(402) 554-3772

### **► National Science Foundation (NSF)**

#### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: [weaselp@worldnet.att.net](mailto:weaselp@worldnet.att.net)  
<http://hprsi.net/>

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: [jsutton@mcrel.org](mailto:jsutton@mcrel.org)  
<http://www.mcrel.org/hpc/>

## North Dakota

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Jeffrey Miller, Program Leader  
4-H Youth Development  
North Dakota State University  
219 FLC, PO Box 5016  
Fargo, ND 58105  
(701) 237-7259 / Fax: (701) 231-8568  
E-mail: [hmec4h@ndsuxet.nodak.edu](mailto:hmec4h@ndsuxet.nodak.edu)

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Sarah Nordby  
North Dakota Department of Agriculture  
HCI, Box 9  
Aridon, ND 58620  
(701) 224-4757 / Fax: (701) 224-4567

### **► Department of Education (ED)**

#### **Eisenhower High Plains Consortium for Mathematics and Science**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Gary Gronberg  
Eisenhower Professional Development Program  
North Dakota Department of Public Instruction  
600 East Boulevard Avenue  
Bismarck, ND 58505-0440  
(701) 328-1240 / Fax: (701) 328-4770

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Gary Gronberg  
Eisenhower Professional Development Program  
North Dakota Department of Public Instruction  
600 East Boulevard Avenue  
Bismarck, ND 58505-0440  
(701) 328-1240 / Fax: (701) 328-4770

#### **Mid-continent Regional Educational Laboratory (McREL)**

The Regional Educational Laboratory identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/>

#### **North Central Regional Technology in Education Consortium (NCR\*TEC)**

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult



literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCR\*TEC  
North Central Regional Educational  
Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: ncrtec@ncrel.org  
http://www.ncrtec.org/

Catherine Mozer Connor, R\*TEC Team  
Leader  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 520  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

## ► Department of Energy (DOE)

### Western Area Power Administration (WAPA), Bismarck District Office

This office participates in the Federal Junior Fellowship program and coordinates a Regional Science Bowl competition.

Tim Gerhart  
Western Area Power Administration  
PO Box 1173  
Bismarck, ND 58502-1173  
(701) 221-4547 / Fax: (701) 221-4526  
E-mail: gerhart@wapa.gov

## ► Department of the Interior (DOI)

### Audubon National Wildlife Refuge

The refuge conducts the Annual Bird Box/Feeder Workshop for elementary students. 4-H groups, Boy and Girl Scouts, and interested individuals learn about and construct bluebird houses and bird feeders. Students take home what they build at the end of the session. Construction materials are donated by local lumber companies and grain elevators.

Peter T. Smith, Assistant Project Leader  
Audubon National Wildlife Refuge  
Rural Route 1, Box 16  
Coleharbor, ND 58531  
(701) 442-5474 / Fax: (701) 442-5546

### Arrowwood National Wildlife Refuge

Environmental education programs are tailored to the needs and/or curricula of requesting organizations. Groups consist of local classrooms of all ages, scout groups, 4-H, and other clubs. Onsite activities relate to refuge operations, mission, management, and general environmental topics. Local Project WILD facilitators are often used in addition to refuge staff.

Mark Vaniman, Refuge Manager  
Arrowwood NWR  
7745 11th Street, SE  
Pingree, ND 58476  
(701) 285-3341 / Fax: (701) 285-3350

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Lorrence Schardt, Education Coordinator  
Bureau of Land Management  
PO Box 36800  
Billings, MT 59107  
(406) 255-2827 / Fax: (406) 255-2759

### Des Lacs National Wildlife Refuge

As part of its education program, the refuge has developed *An Educator's Guide to Great Plains Fire Ecology*, a publication that enables educators to make presentations about the role of fire in grassland ecology.

Michael D. Blenden, Project Leader  
Des Lacs National Wildlife Refuge  
Box 578  
Kenmare, ND 58746  
(701) 385-4046 / Fax: (701) 385-3214

### Devils Lake Wetlands Management District

Students Educated about Ecosystems is a program in which K-12 students receive instruction on the interrelationships of life forms on the refuge.

Roger Hollevoet, Project Leader  
Devils Lake Wetlands Management District  
PO Box 908  
Devils Lake, ND 58301  
(701) 662-8611 / Fax: (701) 662-8612

### J. Clark Salyer National Wildlife Refuge

Programs and tours are developed and conducted according to the needs of the specific groups that visit the refuge.

Gary Erickson, Supervisory Refuge  
Operation Specialist  
J. Clark Salyer NWR  
PO Box 66  
Upham, ND 58789  
(701) 768-2548 / Fax: (701) 768-2834

### Long Lake National Wildlife Refuge

Project WILD and Project WET workshops are given to state educators for incorporating science, wildlife, and water education into existing curriculum.

Paul C. Van Ningen, Project Leader  
Long Lake NWR Complex  
12000 353 Street SE  
Moffit, ND 58560  
(701) 387-4397 / Fax: (701) 387-4767

### Project Water Education for Teachers (WET)

Project WET is an interdisciplinary water education program intended to supplement a school's existing curriculum. Classroom-ready teaching aids being developed include activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Bill Sharff  
State Water Commission  
900 East Boulevard  
Bismarck, ND 58505  
(701) 224-4833

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Dave Jensen, Project WILD Coordinator  
North Dakota Game and Fish  
100 North Bismarck Expressway  
Bismarck, ND 58501-5095  
(701) 221-6322 / Fax: (701) 221-6352

### Tewaukon National Wildlife Refuge

The Refuge Management for Prairie Wildlife program uses the refuge as a classroom to introduce visitors to the National Wildlife Refuge System and the wildlife management practices being used to manipulate habitat for the benefit of migratory birds and resident wildlife. The refuge also offers a National Wildlife Week program consisting of materials and in-school visits by refuge staff who discuss the natural resources topic selected by the Wildlife Federation.

Jack Lalor, Refuge Operations Specialist  
Tewaukon National Wildlife Refuge  
9754 143 1/2 Avenue SE  
Cayuga, ND 58013  
(701) 724-3598 / Fax: (701) 724-3683

### **Theodore Roosevelt National Park**

Environmental education programs are offered to grades K-12 and to clubs and social organizations. Activities are tailored to meet the needs and/or curricula of the requesting instructor.

Bruce M. Kaye, Chief of Interpretation  
Theodore Roosevelt National Park  
Box 7  
Medora, ND 58645  
(701) 623-4466 / Fax: (701) 623-4840  
<http://www.nps.gov/thro/>

### **U.S. Fish and Wildlife Service**

The Endangered Species Tub Program is designed for teachers and other educators working with grades K-12. The purpose is to increase awareness and appreciation for endangered species. Materials in the tub include games, videos, puzzles, computer disks, wolf hide, preserved pallid sturgeon, and posters. The Prairie Wetlands Education Trunk Program provides trunks containing a variety of hands-on, interactive materials for use by K-12 teachers and educators. The purpose is to build awareness and understanding of the importance of wetlands. Materials include puppets and scripts, an amphibian trivia game, a wetland animal track match activity, puzzles, videos, and a teacher guide.

Kathy Martin, Botanist  
Karen Kreil, Fish and Wildlife Biologist  
USFWS  
Ecological Services  
1500 East Capitol Avenue  
Bismarck, ND 58501  
(701) 250-4401 / Fax: (701) 250-4400

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Jennifer Gladden, Executive Director  
Job Service North Dakota  
1000 East Divide Avenue, PO Box 5507  
Bismarck, ND 58506-5507  
(701) 328-2836 / Fax: (701) 328-4000

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Estela Hamersma, AGL-4  
FAA Great Lakes Region  
O'Hare Lake Officer Center  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7106 / Fax: (847) 294-7184

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Charles L. Robertson, Assistant Professor  
Aviation Education Resource Center  
Department of Aviation  
University of North Dakota  
Box 8216, University Station  
Grand Forks, ND 58202-8216  
(701) 777-2791

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Cece Forget, Environmental Education Coordinator  
Environmental Protection Agency  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 8  
Cece Forget  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Teachers may preview or copy NASA materials upon request.

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information Services  
Branch AP2  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Center for Aerospace Science  
University of North Dakota  
PO Box 9008, University Station  
Grand Forks, ND 58202-9008  
(701) 777-4856

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

North Dakota Space Grant Consortium  
Department of Space Studies, Box 9008  
University of North Dakota  
Grand Forks, ND 58202  
(701) 777-3167

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: [weaselp@worldnet.att.net](mailto:weaselp@worldnet.att.net)  
<http://hprsi.net/>

ership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Melanie Schumacher, President  
South Dakota Ag in the Classroom  
PO Box 577  
Pierre, SD 57501  
(605) 945-2306

## ► Department of Defense (DoD)

### South Dakota Air and Space Museum

The evolution of aviation and the progression of technology involved in aviation are the primary aspects of this museum. Tours are available upon request.

South Dakota Air and Space Museum  
28 BW/CVM  
Ellsworth Air Force Base, SD 57706-5000  
(605) 385-5188

## ► Department of Education (ED)

### Eisenhower High Plains Consortium for Mathematics and Science

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: [jsutton@mcrcel.org](mailto:jsutton@mcrcel.org)  
<http://www.mcrcel.org/hpc/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Jim Hauck  
Eisenhower Professional Development Program  
South Dakota Division of Education  
700 Governors Drive  
Pierre, SD 57501-2291  
(605) 773-4712 / Fax: (605) 773-6139

# South Dakota

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

John Burton, 4-H Interim Program Leader  
4-H Club  
Box 2207E, Ag Hall 104  
South Dakota State University  
Brookings, SD 57007  
(605) 688-4167 / Fax: (605) 688-4939  
E-mail: [jb4h@sdsumus.sdstate.edu](mailto:jb4h@sdsumus.sdstate.edu)

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national lead-

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Paul Gough  
Board of Regents  
207 East Capitol  
Pierre, SD 57501  
(605) 773-3455 / Fax: (605) 773-5320

Daniel Farrington  
Black Hills State University  
1200 University, USD 9537  
Spearfish, SD 57799  
(605) 642-6627 / Fax: (605) 642-6031

### **Mid-continent Regional Educational Laboratory (McREL)**

The Regional Educational Laboratory identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/>

### **North Central Regional Technology in Education Consortium (NCR\*TEC)**

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCR\*TEC  
North Central Regional Educational Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [ncrttec@ncrel.org](mailto:ncrttec@ncrel.org)  
<http://www.ncrttec.org/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 520  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

### **► Department of Energy (DOE)**

#### **Western Area Power Administration (WAPA)**

WAPA conducts the Regional Science Bowl, an academic competition sponsored by DOE and the community. Held each February, it encourages the study of science and mathematics and the pursuit of related careers. The regional winner advances to the national competition, held each spring in Washington, DC.

Diane Neuharth  
Western Area Power Administration  
South Dakota Maintenance Office  
200 4th Street, SW  
Huron, SD 57350-2474  
(605) 353-9235 / Fax: (605) 353-9254  
E-mail: [neuharth@wapa.gov](mailto:neuharth@wapa.gov)

### **► Department of the Interior (DOI)**

#### **Badlands National Park**

The park offers guided nature walks and a teacher guide that emphasizes the geology, history, ecology, and zoology of the Badlands.

Division of Interpretation  
Badlands National Park  
PO Box 6  
Interior, SD 57750  
(605) 433-5242

#### **Bureau of Land Management State Office**

This office provides information about educational programs, materials, and local land-management issues.

Lorrence Schardt, Education Coordinator  
Bureau of Land Management  
PO Box 36800  
Billings, MT 59107  
(406) 255-2827 / Fax: (406) 255-2759

#### **Earth Science Information Center, Sioux Falls**

This center offers information and sales ser-

vice for U.S. Geological Survey map products and Earth science publications.

Sioux Falls Earth Science Information Center  
U.S. Geological Survey  
EROS Data Center  
Sioux Falls, SD 57198-0001  
(605) 594-6151  
(800) USA-MAPS  
E-mail: [custserv@edcmail.cr.usgs.gov](mailto:custserv@edcmail.cr.usgs.gov)

### **Gavins Point National Fish Hatchery and Aquarium**

The hatchery/aquarium works with school districts, church groups, scout troops, senior citizens, and home school groups in South Dakota, Iowa, and Nebraska. Education opportunities are available in the areas of fishery biology, environmental education and awareness, watchable wildlife, aquatic science, and ecology. This program provides in-school and outdoor classroom learning opportunities.

Herb Bollig, Project Leader  
Gavins Point National Fish Hatchery and Aquarium  
Rural Route 1, Box 293  
Yankton, SD 57078  
(605) 665-3352 / Fax: (605) 665-3360

### **Jewel Cave National Monument**

Programs include guided nature walks and lectures that emphasize the geology of the monument.

Division of Interpretation  
Jewel Cave National Monument  
Rural Route 1, Box 60AA  
Custer, SD 57730  
(605) 673-2288

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Steve Kirsch, Project WILD Coordinator  
South Dakota Department of Game, Fish, and Parks  
523 East Capitol  
Pierre, SD 57501  
(605) 773-5511 / Fax: (605) 773-6245

### **Reservoir and River Management: Taming South Dakota's Rivers**

Volunteers visit water festivals and schools to show a video about reservoirs in South Dakota and to discuss water resource development.

Curt Anderson, Civil Engineer  
Newell Field Office, N-434  
PO Box 226  
Newell, SD 57760  
(605) 456-2695 / Fax: (605) 456-2153



## Waubay National Wildlife Refuge

Glacial Lakes Outdoor School provides an opportunity to study and appreciate the inter-relationships between people and the natural world. Study sites include ponds, disturbed or restored prairie, woodlands, and glacial lakes at outdoor classroom study sites in the refuge. In the School Groups Programs, staff provide guided tours and talks, as requested, to various students visiting the refuge on field trips. Talks include refuge natural history, bird life, wildlife, and vegetation.

Doug Leschisin, Refuge Operations Specialist  
Waubay NWR  
Rural Route 1 Box 39  
Waubay, SD 57273  
(605) 947-4521 / Fax: (605) 947-4524

## Wind Cave National Park

The park offers Connections, an environmental education program for first through eighth graders. The onsite, day-long experience is designed to allow students and teachers to explore relationships between the mixed grass prairie, the ponderosa pine forest, the cave, and the plants and animals that live in these habitats. The concept-based curriculum encourages critical thinking and cooperative learning.

Kathy Steichen, Assistant Chief Interpreter  
Wind Cave National Park  
Rural Route 1, Box 190 WCNP  
Hot Springs, SD 57747  
(605) 745-1131 / Fax: (605) 745-4207

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Craig W. Johnson, Secretary  
South Dakota Department of Labor  
Kneip Building, 700 Governor's Drive  
Pierre, SD 57501-2277  
(605) 773-3101 / Fax: (605) 773-4211

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services,

including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Estela Hamersma, AGL-4  
FAA Great Lakes Region  
O'Hare Lake Officer Center  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7106 / Fax: (847) 294-7184

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Chip Harris, Director  
Aviation Education Resource Center  
Office of Planning and Development  
Sisseton Wahpeton Community College  
Old Agency Box 689  
Sisseton, SD 57262-0689  
(605) 698-3966

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Cece Forget, Environmental Education Coordinator  
Environmental Protection Agency  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 8  
Cecce Forget  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

## Wyoming

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information Services  
Branch AP2  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
T.I.E. Office  
1925 Plaza Boulevard  
Rapid City, SD 57702  
(605) 394-1876

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

South Dakota Space Grant Consortium  
Institute of Atmospheric Sciences  
South Dakota School of Mines and Technology  
501 East St. Joseph Street  
Rapid City, SD 57701-3995  
(605) 394-1975

### ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished

regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: [weaselp@worldnet.att.net](mailto:weaselp@worldnet.att.net)  
<http://hprsi.net/>

## Wyoming

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Lamar Nichols, Extension Assistant  
Director, 4-H & Youth  
College of Agriculture  
University of Wyoming  
PO Box 3354  
Laramie, WY 82071  
(307) 766-5170 / Fax: (307) 766-3998  
E-mail: [lamar@uwyo.edu](mailto:lamar@uwyo.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Elaine Moore  
Wyoming Ag in the Classroom  
Wyoming Department of Agriculture  
2407 Highland Court  
Douglas, WY 82633  
(307) 358-6232

Lori Grass, President  
Wyoming Ag in the Classroom  
2219 Carey Avenue  
Cheyenne, WY 82002  
(307) 322-5727

### ► Department of Education (ED)

#### Eisenhower High Plains Consortium for Mathematics and Science

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

John Sutton, Director  
Eisenhower High Plains Consortium  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
E-mail: [jsutton@mcrel.org](mailto:jsutton@mcrel.org)  
<http://www.mcrel.org/hpc/>

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Judy Kishman  
Eisenhower Professional Development Program  
Wyoming Department of Education  
Hathaway Building, 2nd Floor  
Cheyenne, WY 82002-0050  
(307) 777-6216 / Fax: (307) 777-6234

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Judy Kishman  
Eisenhower Professional Development Program  
Wyoming Department of Education  
Hathaway Building, 2nd Floor  
Cheyenne, WY 82002-0050  
(307) 777-6216 / Fax: (307) 777-6234

#### Mid-continent Regional Educational Laboratory (McREL)

The Regional Educational Laboratory identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Tim Waters, Executive Director  
Mid-continent Regional Educational  
Laboratory  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
(303) 337-0990 / Fax: (303) 337-3005  
(800) 949-6387  
<http://www.mcrel.org/>

### Northwest Educational Technology Consortium (NETC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Seymour Hanfling, Director, NETC  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3297  
(503) 275-9500, ext. 658 / Fax: (503) 275-0449  
(800) 211-9435 (Helpline)  
E-mail: [hanflins@nwrel.org](mailto:hanflins@nwrel.org)  
<http://www.netc.org/>

Gerald Malitz, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
NCES, Room 410c  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
(202) 219-1364  
E-mail: [gerald\\_malitz@ed.gov](mailto:gerald_malitz@ed.gov)

### ► Department of the Interior (DOI)

#### Bighorn Canyon National Recreation Area

Programs at this recreation area include guided walks and teacher guides. The ecology of Bighorn Canyon is the primary focus.

Division of Interpretation  
Bighorn Canyon National Recreation Area  
PO Box 458  
Fort Smith, MT 59035  
(406) 666-2412

#### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Ranel Capron, Education Coordinator  
Bureau of Land Management  
5353 Yellowstone  
Cheyenne, WY 82009  
(307) 775-6108 / Fax: (307) 775-6082

#### Devils Tower National Monument

The monument offers guided walks and teacher guides that focus primarily on environmental education and the geology of Devils Tower.

Division of Interpretation  
Devils Tower National Monument  
Devils Tower, WY 82714  
(307) 467-5283

#### National Elk Refuge

With the use of pre-visit study materials, students of all ages will be introduced to elk and other wildlife of the refuge. These materials complement a horse-drawn sleigh ride into the refuge, a slide show, video, hands-on exhibits, and a talk with an interpreter to give students a memorable outdoor classroom experience. The refuge is affiliated with the National Wildlife Art Museum, which has 12 galleries of spectacular wildlife art and associated environmental education materials.

James Griffin, Assistant Refuge Manager  
Education and Visitor Services  
National Elk Refuge  
PO Box C  
675 East Broadway  
Jackson, WY 83001  
(307) 733-9212 / Fax: (307) 733-9729

#### Fossil Butte National Monument

*Teaching Paleontology in the National Parks, Monuments, and Public Lands* is a curriculum guide designed to be used by second and third grade teachers when presenting fossils. The guide is accompanied by a traveling kit that includes casts of fossils, slide programs that introduce fossils, environments, adaptations, and an interactive computer program on population dynamics. The curriculum includes four units. For second graders, there is a unit on fossilization and human influences; for third graders, there are units on adaptation, community, and human influences. Fifteen kits are available for loan. Staff also offer a Junior Ranger Program. To participate, children need only have a desire to learn and a sense of wonder. By talking with a ranger, hiking a trail, touring the exhibits, and helping to prepare a fossil, children will earn a Junior Ranger badge and their name will be entered in a permanent register. Parents are encouraged to follow along.

Marcia D. Fagnant, Park Ranger  
Fossil Butte National Monument  
PO Box 592  
Kemmerer, WY 83101  
(307) 877-4455 / Fax: (307) 877-4457

#### Grand Teton National Park

Teton Science School is a year-round residential program for students of all ages. It addresses natural and physical science experimental education. Information, curricula, scheduling, and prices are all available from the school.

William W. Swift, Chief of Interpretation  
Grand Teton National Park  
PO Drawer 170  
Moose, WY 83012  
(307) 739-3390 / Fax: (307) 739-3438

#### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Joe Vogier, Project WILD Coordinator  
Wyoming Game and Fish Department  
5400 Bishop Boulevard  
Cheyenne, WY 82002  
(307) 777-4538 / Fax: (307) 777-4610

#### Wyoming Conservation Connection

Natural Science Workshops for Teachers, a professional development program, is a component of the University of Wyoming's Conservation Connection. This cooperative effort between university personnel and land management and wildlife resource agency personnel provides distinctive learning experiences at regional sites. The teachers' exposure to Wyoming's spectacular natural resources—such as mountains, forests, unique geology, pristine streams, and native wildlife and vegetation—promotes the hands-on experience necessary for a good environmental and natural resource education.

Duane Keown  
Wyoming Conservation Connection  
Box 3992  
Laramie, WY 82071  
(307) 766-6381

#### Wyoming Bureau of Land Management

Archaeology Week consists of various statewide activities, including a speaker's bureau, archaeology fairs, reenactments, contests, tours, and school-sponsored field trips. All activities promote archaeology.

Ranel Stephenson Capron, Archaeologist  
Bureau of Land Management  
5353 Yellowstone Road  
Cheyenne, WY 82009  
(307) 775-6108 / Fax: (307) 775-6082

## Wyoming Resource Education Days (WyRED)

Sponsored by the Wyoming section of the Society for Range Management and various state conservation districts, this program provides practical experience in rangeland management. Subjects covered include geology, soils, plant growth, the parts and identifying characteristics of plants, range sites, range utilization, wildlife, water and riparian areas, reclamation, and many other topics. A range-judging contest is held on the last day.

Don Glenn, Range Conservationist  
5353 Yellowstone Road  
Cheyenne, WY 82009  
(307) 775-6097 / Fax: (307) 775-6082

## Yellowstone National Park

*Expedition: Yellowstone!* is a 234-page curriculum for grades 4-6. Its goal is to acquaint students, teachers, and parents with the Great Yellowstone Ecosystem. A residential program with a National Park ranger faculty is offered to school groups in the spring and fall. Whether the curriculum is used in the park or in the classroom, students experience hands-on activities in the outdoors and develop an ethic that promotes life-long stewardship of the park, as well as of regional and global resources. The program offers teachers of grades 4-6 free use of park facilities, free accommodations, and services of a park ranger during the spring and fall for environmental education field trips. Teachers are required to register for the program and purchase curriculum materials. Due to the high number of requests, a lottery process determines which teachers can participate.

Ellen Petrick-Underwood, Environmental Education Specialist  
National Park Service  
PO Box 168  
Yellowstone National Park, WY 82190  
(307) 344-2253 or 344-7381  
Fax: (307) 344-2323

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Elizabeth A. Nelson, Administrator  
Department of Employment  
Employment and Resources Division  
PO Box 2760  
Casper, WY 82602  
(307) 235-3254 / Fax: (307) 235-3278

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Cece Forget, Environmental Education Coordinator  
Environmental Protection Agency  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

## The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 8  
Cece Forget  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

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NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.



Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Learning Resource Center  
Education Building, Room 222  
University of Wyoming  
Laramie, WY 82070  
(307) 766-2527

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Wyoming Space Grant Consortium  
Department of Physics and Astronomy  
University of Wyoming  
PO Box 3905, University Station  
Laramie, WY 82071-3905  
(307) 766-6267

## **► National Science Foundation (NSF)**

### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

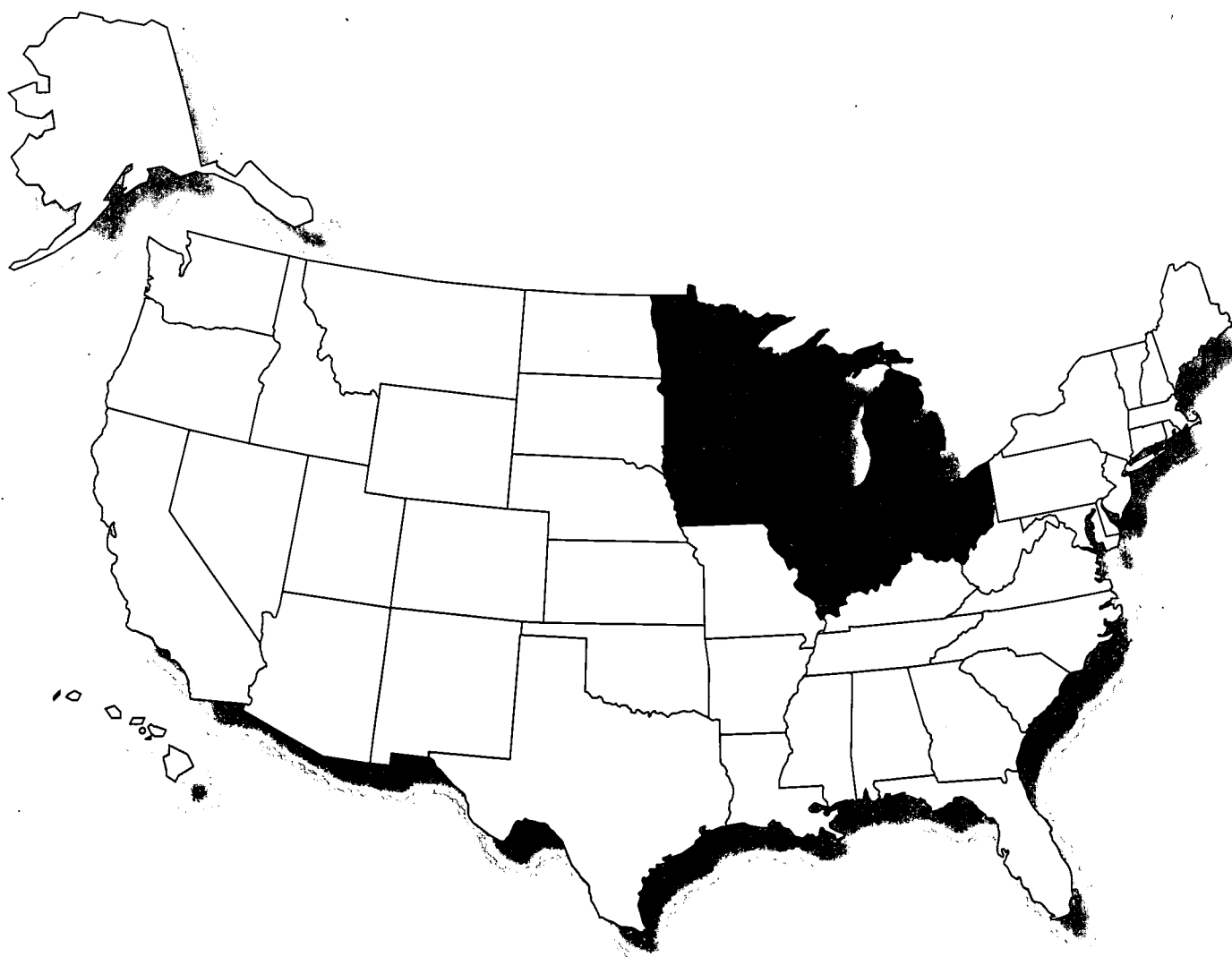
Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: [weaselp@worldnet.att.net](mailto:weaselp@worldnet.att.net)  
<http://hprsi.net/>

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- ▶ Illinois
- ▶ Indiana
- ▶ Iowa
- ▶ Michigan
- ▶ Minnesota
- ▶ Ohio
- ▶ Wisconsin

# North Central Region

▶ **Midwest Consortium for Mathematics  
and Science Education**



The Midwest Consortium for Mathematics and Science Education (MSC) provides direct technical assistance to state education agencies, intermediate state educational units, and local school districts to advance systemic reform of mathematics and science in the states of Illinois, Iowa, Indiana, Ohio, Michigan, Minnesota, and Wisconsin. Based on a student-centered learning philosophy and informed by best practice and research, technical assistance efforts are focused on helping to provide meaningful, purposeful, and engaging mathematics and science learning experiences for all students. Whenever and wherever possible, the appropriate use of technology to support and accelerate systemic reform is advocated.

## Beliefs

Systemic reform of mathematics and science education is a complex challenge that must be grounded in a well-defined set of beliefs. Because the system as a whole is the challenge, the beliefs must relate not only to the nature of learners and learning, but to organization and change theory as well. Finally, the beliefs must speak to the nature of interventions that are most likely to facilitate continuous improvement of mathematics and science learning for all students.

### *Beliefs About Students and Learning:*

- ▶ All students can benefit from meaningful and active engagement in learning.
- ▶ The knowledge, skills, and understanding necessary to become lifelong learners are best acquired when students are allowed to build on prior experiences and learning.
- ▶ Because each learner presents a unique set of experiences and attributes, a variety of methods and approaches will result in meaningful learning.
- ▶ The only constant across all learners is that when they are allowed to practice learning that is hands-on, minds-on, and authentic, they are more likely to become highly motivated and self-directed.
- ▶ The acquisition of knowledge, skills, and understanding is best demonstrated

through a variety of assessment practices that provide multiple opportunities to gauge the level of learning relative to well-defined expectations.

### *Beliefs About the Nature of the Education Enterprise:*

- ▶ The most significant element of the education enterprise is the instruction that takes place within the classroom.
- ▶ Dedicated teachers constantly seek to improve their practices and willingly adapt to change and adopt new approaches they believe to be consistent with the goal of enhanced learning for their students.
- ▶ Effective educational leaders empower teachers to be creative and inventive in their choice of teaching practice and provide support that facilitates improved learning.
- ▶ Standards and curriculum frameworks exist to shape and guide practice and are used most effectively when education professionals are involved in their development and are given the opportunity to understand and apply them to learning for students.
- ▶ Assessment systems must exist for the primary purpose of informing instructional choice and therefore must be embedded in the learning process. Assessment must be varied in methodology and focused on application and performance that demonstrate the acquisition of expected skills, knowledge, and understanding.
- ▶ Technology provides a powerful tool that can both enhance and facilitate student learning; therefore, it should be available to and used by all teachers and students.

### *Beliefs About System Interventions:*

- ▶ Systemic reform of education must address all elements of the instructional system.
- ▶ Systemic reform of education should have continuous improvement of student learning as a fundamental goal.

- ▶ Systemic reform efforts must empower and engage all stakeholders in the process of seeking continuous improvement of the system.
- ▶ Interventions that result in systemic reform must provide for long-term, follow-up support of efforts that result in improvement of instruction and learning for all students.

## Mission

The mission of MSC is to advance systemic change in mathematics and science education through: (1) collaboration with institutions and agencies within the region; (2) direct services and technical assistance to school districts, schools, teachers, and administrators to support high-priority initiatives; (3) support that will result in the development and implementation of standards, curriculum, assessment, and performance indicators that challenge students to higher levels of attainment; (4) identification and dissemination of resources, methods, materials, and practices that expand learning beyond the classroom through information education agencies and electronic media; and (5) access to networks of instructional resources and materials that will result in improved learning for all students.

## Objectives

MSC will continue to collaborate with partners throughout the region, including state departments of education, intermediate units, and other programs that are interested in systemic improvement of mathematics, science, and technology. MSC plans to advance the systemic reform of mathematics and science education through the accomplishment of the following six objectives:

- ▶ MSC will facilitate and engage in collaborative efforts with teachers, administrators, and professional organizations to achieve the outcome of systemic reform of mathematics and science education throughout the region.
- ▶ MSC will establish and implement a process to identify high-impact, high-priority projects, products, and services that respond to the needs of our collaborative

partners. MSC will develop relationships with two or three intensive sites in each state to collaboratively research and develop materials and processes that support improved student learning strategies and achievement.

- MSC will provide teachers, administrators, and other educators with training and technical assistance that will enable them to continuously improve teaching and learning in mathematics and science. Special emphasis will be placed on the use of technology.
- MSC will work through the National Organization Task Force on Informal Education, energy labs, museums, and other informal education entities to promote the use of informal education resources.
- MSC will work through its collaborative regional networks, other consortia, and the Eisenhower National Clearinghouse for Mathematics and Science Education to identify and describe exemplary resources and best instructional practices.
- MSC will initiate evaluation and data collection related to intended outcomes to determine the effectiveness of consortium activities in districts selected for intensive partnerships.

Midwest Consortium for Mathematics and Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

Al Miller and Jim Lubner  
Wisconsin Sea Grant  
University of Wisconsin  
1800 University Avenue  
Madison, WI 53705-4094  
(608) 262-0644 / Fax: (608) 263-2063

## Illinois

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Janice A. Seitz, Assistant Dean and Director  
Illinois 4-H/Youth Development  
University of Illinois  
302 East John, Suite 1901  
Champaign, IL 61820  
(217) 333-0910 / Fax: (217) 333-9287  
E-mail: [seitzj@ces.aces.uiuc.edu](mailto:seitzj@ces.aces.uiuc.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Stacy Shane  
Illinois Farm Bureau  
Field Services Division  
1701 Towanda Avenue  
Bloomington, IL 61702-2901  
(309) 557-3334 / Fax: (309) 557-2170

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

### ► Department of Defense (DoD)

#### Army Construction Engineering Research Laboratories

The laboratories offer high school students apprenticeship programs designed to increase scientific knowledge through hands-on experiences.

Michelle Cooper  
Equal Employment Opportunity Office  
U.S. Army Construction Engineering Research Laboratories (USACERL)  
PO Box 9005  
Champaign, IL 61826-9005  
(217) 373-7279 / (800) 872-2375

#### Naval Training Center, Great Lakes

The training center participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations in Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

NTC Great Lakes IL  
Commander, Naval Training Center  
Code PAO  
Great Lakes, IL 60088-5000  
(847) 688-2201

#### Rock Island Arsenal Museum

Exhibits illustrate the development of technology in weaponry production. Many historic and modern small arms are on display.

Rock Island Arsenal Museum  
Attention: SIORI-CFM  
Rock Island, IL 61299-5000  
(309) 782-5021

#### Science and Engineering Apprentice Program

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near the participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer.

**Gilbert Valdez**  
*Director*

**Cathy Cook**  
*Mathematics/Science Professional Development Specialist*

**Kim Good**  
*Evaluation and Assessment Specialist*

**Cynthia Pattison**  
*Mathematics and Technology Specialist*

**Nancy Berkas**  
*Program Associate*

**Barbara Youngren**  
*Program Associate*

**Arlene Hambrick**  
*Program Associate*

**Gary Appel**  
*Program Associate*

**Aggie Van Huis**  
*Administrative Assistant*

**Mary Ann Larson**  
*Administrative Assistant*

**Amy Jovanovich**  
*Program Secretary*



Mary Hollis  
Army Chemical and Biological Defense  
Agency (CBDCOM)  
SCBRD-ED (RI)  
Rock Island Arsenal, IL 61299-7410  
(309) 785-3019

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Gloria Jordan  
Grants Management Department, N-253  
Eisenhower Professional Development  
Program  
Illinois State Board of Education  
100 North First Street  
Springfield, IL 62777  
(217) 782-3810 / Fax: (217) 782-7170

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

James C. Forstall, Associate Director for  
Academic Affairs  
Eisenhower Professional Development  
Program  
Illinois State Board of Higher Education  
500 Reisch Building  
Four West Old Capitol Square  
Springfield, IL 62701  
(217) 782-7184 / Fax: (217) 782-8548

### Midwest Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and  
Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

## North Central Regional Educational Laboratory (NCREL)

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

## North Central Regional Technology in Education Consortium (NCRTEC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCRTEC  
North Central Regional Educational  
Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [rknuth@ncrel.org](mailto:rknuth@ncrel.org)  
<http://www.ncrtec.org/>

Catherine Mozer Connor, R\*TEC Program  
Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

## ► Department of Energy (DOE)

### Argonne National Laboratory

The laboratory offers students research participation programs and sponsors contests, lectures, and laboratory tours, as well as educational conferences and workshops. Student research participation opportunities are offered for students in grade 12. Junior high

and high school teachers are eligible for teacher development and research participation appointments usually held during the summer months.

Harold W. Myron, Ph.D., Director  
Division of Educational Programs  
Argonne National Laboratory  
9700 South Cass Avenue, Building 223  
Argonne, IL 60439  
(630) 252-4114 / Fax: (630) 252-3193  
E-mail: [harold\\_myron@qmgate.anl.gov](mailto:harold_myron@qmgate.anl.gov)

## Fermi National Accelerator Laboratory

Through its Leon M. Lederman Science Education Center, the laboratory offers institutes, workshops, and research experiences for teachers; a Teacher Resource Center including an Eisenhower National Clearinghouse Demonstration site; onsite environmental and physical science experiences; apprenticeships; and informal classes for students.

Marjorie G. Bardeen  
Education Office  
Fermi National Accelerator Laboratory  
MS 226  
PO Box 500  
Batavia, IL 60510  
(630) 840-2031 / Fax: (630) 840-8248  
E-mail: [mbardeen@fnal.gov](mailto:mbardeen@fnal.gov)  
<http://www-ed.fnal.gov/>

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

The office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Crab Orchard National Wildlife Refuge

Wildlife management and environmental education are emphasized in summer teacher workshops and youth camps at the refuge. Guided tours and curriculum materials are available upon request.

Public Use Manager  
Crab Orchard National Wildlife Refuge  
PO Box J  
Carterville, IL 62918  
(618) 997-3344

## Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Ann Pictor, Project WILD Coordinator  
Illinois Board of Education  
100 North First Street  
Springfield, IL 62777  
(217) 782-2826 / Fax: (217) 782-6097

Kathleen M. Andrews, Project WILD Coordinator  
Kids for Conservation  
Illinois Department of Conservation  
524 South Second Street, Room 515  
Springfield, IL 62701-1787  
(217) 524-4126 / Fax: (217) 782-9552

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Herbert D. Dennis, Manager  
JTPA Programs Division  
Illinois Department of Commerce and Community Affairs  
620 East Adams, Sixth Floor  
Springfield, IL 62701  
(217) 785-6006 / Fax: (217) 785-6454

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Estela Hamersma, AGL-4  
FAA Great Lakes Region  
O'Hare Lake Officer Center  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7106 / Fax: (847) 294-7184

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Paul McLaughlin, Associate Vice President and Dean  
Aviation Education Resource Center  
Parks College of St. Louis University  
500 Falling Springs Road  
Cahokia, IL 62206  
(618) 337-7500, ext. 364

Richard M. Ware  
Division of Aeronautics  
Aviation Education Resource Center  
State of Illinois  
One Langhorne Bond Drive, Capital Airport  
Springfield, IL 62707-8415  
(217) 785-8516

Elaine Vitello  
Aviation Education Resource Center  
Southern Illinois University  
College of Technical Careers, Room 222  
Carbondale, IL 62901  
(618) 453-8821

Christine Wedam Rosario  
Northeastern Illinois University  
College of Education  
Chicago Teachers' Center  
770 North Halsted Street, Suite 420  
Chicago, IL 60622-5972  
(312) 733-7330

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Suzanne Saric, Environmental Education Coordinator  
Environmental Protection Agency  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(312) 353-3209 / Fax: (312) 353-1155

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 5  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(800) 621-8431 / Fax: (312) 353-1155

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Lewis Research Center  
Educator Resource Center  
21000 Brookpark Road, MS 8-1  
Cleveland, OH 44135  
(216) 433-2017

### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jo Ann Charleston, Acting Chief  
Office of Educational Programs  
NASA Lewis Research Center  
21000 Brookpark Road, MS 7-4  
Cleveland, OH 44135-3191  
(216) 433-2957

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Chicago Museum of Science and Industry  
NASA Regional Educator Resource Center  
57th Street and Lakeshore Drive  
Chicago, IL 60637-2093  
(773) 684-1414, ext. 2426

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Illinois Space Grant Consortium  
Aeronautical and Astronautical Engineering Department  
104 South Wright Street  
306 Talbot Lab  
University of Illinois at Urbana-Champaign  
Urbana, IL 61801  
(217) 244-2935

### **► National Science Foundation (NSF)**

### **Urban Systemic Initiatives (USI) Program**

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technol-

ogy education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Clifton Burgess  
Chicago Public Schools  
1819 West Pershing Road  
Chicago, IL 60609  
(773) 535-8860 / Fax: (773) 535-7306  
E-mail: usiburgess@aol.com

## **Indiana**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Robert M. Ritchie, Interim  
Department Head, 4-H Youth  
Purdue University  
Purdue CES  
1161 Agriculture Administration Building  
West Lafayette, IN 47907-1161  
(765) 494-8439 / Fax: (765) 496-1152  
E-mail: bob\_ritchie@four-h.purdue.edu

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Harry L. Pearson  
Indiana Farm Bureau  
PO Box 1290  
Indianapolis, IN 46206  
(317) 692-7851 / Fax: (317) 692-7854

Pam Bright  
Office of Commission  
150 West Market, Suite 414  
Indianapolis, IN 46024  
(317) 232-8769

### **► Department of Commerce (DOC)**

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Al Miller and Jim Lubner  
Wisconsin Sea Grant  
University of Wisconsin  
1800 University Avenue  
Madison, WI 53705-4094  
(608) 262-0644 / Fax: (608) 263-2063

### **► Department of Education (ED)**

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Phyllis L. Usher  
Eisenhower Professional Development Program  
Indiana Department of Education  
229 State House  
Indianapolis, IN 46204-2798  
(317) 232-6984 / Fax: (317) 232-9121

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Margaret Cronin  
Eisenhower Professional Development Program  
Indiana Commission for Higher Education  
101 West Ohio, Suite 550  
Indianapolis, IN 46204-1909  
(317) 464-4400 / Fax: (317) 464-4410

#### **Midwest Consortium for Mathematics and Science Education**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and  
Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

### North Central Regional Educational Laboratory (NCREL)

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

### North Central Regional Technology in Education Consortium (NCRTEC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCRTEC  
North Central Regional Educational  
Laboratory  
1900 North Spring Road, Suite 300  
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(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [rknuth@ncrel.org](mailto:rknuth@ncrel.org)  
<http://www.ncrtec.org/>

Catherine Mozer Connor, R\*TEC Program  
Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

The office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Indiana Dunes National Lakeshore

Lakeshore programs, including guided walks and teacher guides, focus on lakeshore ecology. Specific programs include the following:

- **A Grain of Truth** allows participants to observe winds and waves at work creating, shaping, eroding, and moving dunes. Students hike approximately one mile along beach and dune trails to learn about the processes of glaciation, erosion, and dune building. The specific activities and interpretive techniques used will be adapted to the experience and abilities of the group and special circumstances that may exist on the day of the program.
- **The Biological Diversity Program** explores whether we could survive without the incredible variety of plant and animal life that shares the Earth with us. Participants investigate the great variety of living organisms and communities and learn of the importance of biodiversity to the continued existence of living ecosystems.
- **Discover** allows participants to be detectives to find all the clues to the wonders of nature. By using their senses, students find what's new and what's old.
- **The Earth Day Celebration** invites students to explore how our consumptive lifestyle affects our environment. Subjects include habitat loss, pollution, endangered species, and recycling. Indoor and outdoor activities help students develop a sense of belonging to the natural environment and show them actions they can take to help protect it.
- **Fall Fanfare** explores the many changes in the dunes at this season. Students search the dunes and forests for evidence of change and learn of fall activities and adaptations that plants and animals use to prepare for winter.
- **Fire Ecology** investigates the properties behind fire's dynamic force. Students

learn why some ecosystems need fire to maintain themselves. Methods of prescribed burn and fire management using current technology are described.

- **Fire Friend or Foe** teaches students how some plants need fire to survive. Participants explore the nutrient cycle and discuss fire's use as a tool for managing our natural resources. Safety equipment used in fire suppression by National Park Service rangers is explained.
- **Habitats Hike** helps students discover why Indiana Dunes has the third largest number of plant species in the entire National Park System. Participants investigate its many habitats, including a forested dune, wetland area, and a sand prairie, and learn about the diversity of life each supports.
- **Lake Michigan Alive** features the life cycles of the lake. Students experience predator/prey relationships and discuss the differences between aquatic life and land animals. Individual groups participate in reenacting the day-to-day struggles of a lake creature.
- **Let's Get Wild About Wildlife** answers such questions as, Who lives in that cattail mound? Who's swooping down to grab that mouse? Who gnawed on that tree branch? On a hike, students become detectives searching for animal homes and signs. Students will see and be able to touch a box turtle or snake. Other indoor and outdoor activities will teach students about animal habitat and predator/prey relationships. By the end of the program, students will realize that wildlife habitat is being destroyed. They will be able to name ways to help protect wildlife.
- **Mother Nature's Recycling Center** allows students to investigate the process of decomposition and renewal during a walk in the woods at the Douglas Center. Participants learn what they can recycle at home to save energy and space. They develop creative and critical thinking abilities using reading, writing, and math skills, while learning about recycling in nature and our communities.
- **Mount Baldy Moves** gives students the chance to climb a dune, hike along a wooded trail, and catch a spectacular view of Lake Michigan. Participants in role-playing activities learn how wind, water, waves, and plants work together to form dunes. Also described are the ways in which humans have altered dune formations.
- **Out on a Limb** allows students to explore the mysterious inner workings of the forest community. By using a key, students



will learn to identify trees. Through a rotten log study, they will uncover the importance of fungi and bacteria. Activities will reveal people's dependence on forests and the need for wise management of our forests.

- ▶ **Pinhook Bog** was born during the retreat of the last glacier, when a chunk of glacier fell off into a clay area and created a kettle lake. Through the course of the next 10,000 years, as sphagnum moss moved in and closed off the lake, a unique environment of insect-eating plants, highly acidic water and quaking earth, and delicious blueberries was created. The specific activities and interpretive techniques used will be adapted to the experience and abilities of the group and special circumstances that exist on the day of the program.
- ▶ **Reflections on Snow** helps students discover winter while hiking or cross-country skiing in Miller Woods. Indoor activities explore tracking, predation, and winter habitats.
- ▶ **The Secrets of Succession** allows participants to travel through time from beach and dunes through jack pine forests to ancient oak-covered dunes. On this approximately one-mile hike, students discover how the dynamic process of dune succession works by measuring the sunlight, wind speed, percolation rate, soil moisture, and soil temperature of four biological communities. The specific activities and interpretive techniques used will be adapted to the experience and abilities of the group and special circumstances that may exist on the day of the program.
- ▶ **Survival of the Fittest** teaches students that each species has adaptations that allow it to survive in its habitat. Also discussed is how predator/prey relationships allow wildlife to maintain an acceptable balance in nature.
- ▶ **Talk with the Animals** is a puppet show in which students meet characters such as Otis Oak, Patty Poison Ivy, Sammy Skunk, Freddie Frog, and Carl Cattail. As the puppets talk, they reveal their secret haunts and habits. Students will see how the animals and plants of Miller Woods work together as neighbors. On a short walk around a pond and through a forest, students search for the springtime activity of plants and animals.
- ▶ **Tracking Animals** familiarizes students with animal signs such as tracks, droppings, gnawings, scratchings, rubs, dams, nests, and burrows. Noting these signs can open up a whole new story in an otherwise familiar setting.

- ▶ **Water, Water Everywhere** provides valuable information on the sources of water, the water cycle, and conservation of this precious resource. Through activities and the use of a groundwater model, students discover the value of water.
- ▶ In **Water World**, students use nets and pans to study and collect insects from a pond. Indoors, students will use microscopes to identify pond plants and animals. Through this investigation and a movie, students discover the rich diversity of pond life. From indoor activities, students learn about the history of water pollution and its effect on water quality and pond life diversity. Also, they learn about the scarcity of pure, useable water and about ways that they can use water more wisely.
- ▶ **Winter Exploration** allows students to admire the beauty of the winter woods, search for signs of winter, and seek the food and shelter of animals. Activities help students understand how plants and animals adapt to survive the winter. An indoor discussion will precede either hiking or snowshoeing through the woods.
- ▶ In **Winter Wonderland**, students discover what animals do to prepare for winter.

Bruce Rowe, Environmental Education  
Program Manager  
Indiana Dunes National Lakeshore  
1100 North Mineral Springs  
Porter, IN 46304  
(219) 938-8221 / Fax: (219) 926-7561

### **Muscatatuck National Wildlife Refuge**

With a focus on waterfowl management, the refuge offers an orientation, an audiovisual presentation, and self-guided walks.

Division of Interpretation  
Muscatatuck National Wildlife Refuge  
12985 East U.S. Highway 50  
Seymour, IN 47274  
(812) 522-4352 / Fax: (812) 522-6826

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Warren Gartner, Project WILD Coordinator  
Indiana Department of Natural Resources  
6013 Lakeside Boulevard  
Indianapolis, IN 46278-1996  
(317) 290-3223 / Fax: (317) 290-3225

## ▶ **Department of Labor (DOL)**

### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Craig E. Hantzer, Commissioner  
Indiana Department of Workforce  
Development  
10 North Senate Avenue, Room 302  
Indianapolis, IN 46204  
(317) 232-5661 / Fax: (317) 233-1670

## ▶ **Department of Transportation (DOT)**

### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

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Estela Hamersma, AGL-4  
 FAA Great Lakes Region  
 O'Hare Lake Officer Center  
 2300 East Devon Avenue  
 Des Plaines, IL 60018  
 (847) 294-7106 / Fax: (847) 294-7184

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Hassan Chaharlang, ICPAC Hotline Director  
 Indiana College of Placement and Assessment  
 Center  
 2805 East 10th Street  
 Bloomington, IN 47408  
 (812) 855-8475

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Suzanne Saric, Environmental Education  
 Coordinator  
 Environmental Protection Agency  
 77 West Jackson Boulevard (PI-19J)  
 Chicago, IL 60604  
 (312) 353-3209 / Fax: (312) 353-1155

### The President's Environmental Youth Awards (PEYA) Program

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national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 5  
 77 West Jackson Boulevard (PI-19J)  
 Chicago, IL 60604  
 (800) 621-8431 / Fax: (312) 353-1155

### ► National Aeronautics and Space Administration (NASA)

#### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Lewis Research Center  
 Educator Resource Center  
 21000 Brookpark Road, MS 8-1  
 Cleveland, OH 44135  
 (216) 433-2017

#### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jo Ann Charleston, Acting Chief  
 Office of Educational Programs  
 NASA Lewis Research Center  
 21000 Brookpark Road, MS 7-4  
 Cleveland, OH 44135-3191  
 (216) 433-2957

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
 School of Education  
 University of Evansville  
 1800 Lincoln Avenue  
 Evansville, IN 47722  
 (812) 479-2393

Science Central  
 1950 North Clinton Street  
 Fort Wayne, IN 46805  
 (219) 424-2400, ext. 416

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Indiana Space Grant Consortium  
 School of Aeronautics and Astronautics  
 Purdue University  
 1282 Grissom Hall  
 West Lafayette, IN 47907-1282  
 (765) 494-5135

## Iowa

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Joseph R. Kurth, Director for Youth  
 and 4-H  
 33 Curtiss Hall  
 Iowa State University  
 Ames, IA 50011  
 (515) 294-1018 / Fax: (515) 294-4443  
 E-mail: x1kurth@exnet.iastate.edu

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Barbara J. Lykins  
 Iowa Farm Bureau Federation  
 5400 University Avenue  
 West Des Moines, IA 50266-5997  
 (515) 225-5425 / Fax: (515) 225-5419

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Tom Heiting  
Bureau of Instructional Services  
Eisenhower Professional Development Program  
Iowa Department of Education  
Grimes State Office Building  
Des Moines, IA 50319-0145  
(515) 281-3249 / Fax: (515) 242-6025

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Robert J. Barak, Deputy Executive Director  
Eisenhower Professional Development Program  
Iowa State Board of Regents  
East 12th Street and Grand Avenue  
Old Historical Building  
Des Moines, IA 50319  
(515) 281-3934 / Fax: (515) 281-6420

### Midwest Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

### North Central Regional Educational Laboratory (NCREL)

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

### North Central Regional Technology in Education Consortium (NCRTEC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCRTEC  
North Central Regional Educational Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [rknuth@ncrel.org](mailto:rknuth@ncrel.org)  
<http://www.ncrtec.org/>

Catherine Mozer Connor, R\*TEC Program Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

## ► Department of Energy (DOE)

### Adventures in Supercomputing (AiS)

This program is designed to foster and enhance the participation of diverse populations of high school students in mathematics, science, and computing.

Barbara G. Summers, Education Program Manager  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, MS 6366  
Oak Ridge, TN 37831-6366  
(423) 241-3705 / Fax: (423) 241-6776  
E-mail: [summersbg@ornl.gov](mailto:summersbg@ornl.gov)

## Ames Laboratory

The laboratory offers teacher workshops in science and mathematics. Educational programs, including contests, classes, and mentoring, are also available for students.

Connie Hargrave, Ph.D., Manager  
Ames Laboratory Education Programs  
252 TASF  
Ames Laboratory  
Iowa State University  
Ames, IA 50011  
(515) 294-5343 / Fax: (515) 294-6206  
E-mail: [cph@iastate.edu](mailto:cph@iastate.edu)

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

The office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### DeSoto National Wildlife Refuge

The refuge offers guided walks and materials that focus on prairie ecology, bird migration, and basic environmental education.

Outdoor Recreation Planner  
DeSoto National Wildlife Refuge  
Rural Route 1, Box 114  
Missouri Valley, IA 51555  
(712) 642-4121 / Fax: (712) 271-4210

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Duane Toomsen, Project WILD Coordinator  
Department of Public Instruction  
Grimes State Office Building  
Des Moines, IA 50309  
(515) 281-3146 / Fax: (515) 242-6025

Barb Giger, Aquatic WILD Coordinator  
Department of Natural Resources  
2473 160th Road  
Guthrie Center, IA 50115  
(515) 747-2200 / Fax: (515) 747-3951

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Cynthia P. Eisenhauer, Administrator  
Division of Workforce Development  
Iowa Department of Economic Development  
100 East Grand Avenue  
Des Moines, IA 50319  
(515) 281-5365 / Fax: (515) 281-5144

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Maria Z. Navarro, ACE-41F  
FAA Central Region  
Room 1514  
601 East 12th Street  
Kansas City, MO 64106  
(816) 426-6547 / Fax: (816) 426-3124

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Julie Wilkinson  
IRTS  
Aviation Education Resource Center  
The University of Northern Iowa  
222 Schindler Education Center  
Cedar Falls, IA 50614-0610  
(319) 273-2717

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rowena Michaels, Environmental Education Coordinator  
Environmental Protection Agency  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for

national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 7  
726 Minnesota Avenue  
Kansas City, KS 66101  
(913) 551-7003 / Fax: (913) 551-7066

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

U.S. Space and Rocket Center  
NASA Educator Resource Center  
for Marshall Space Flight Center  
One Tranquility Base  
Huntsville, AL 35758  
(205) 544-5812

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jim Pruitt, Director  
Education Programs Office  
Mail Code CL01  
NASA Marshall Space Flight Center  
Huntsville, AL 35812-0001  
(205) 544-8800

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
University of Northern Iowa  
Room 222, Schindler Education Center  
Cedar Falls, IA 50614  
(319) 273-6066



## Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Iowa Space Grant Consortium  
Iowa State University  
408 Town Engineering Building  
Ames, IA 50011-3231  
(515) 294-3106

# Michigan

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Cynthia B. Mark, Coordinating Program Leader  
Michigan State University  
Extension 4-H Youth Programs  
6H Berkey Hall  
East Lansing, MI 48824-1111  
(517) 355-0180 / Fax: (517) 355-6748  
E-mail: markc@msue.msu.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Eddie Moore  
Michigan State University  
410 Agriculture Hall  
East Lansing, MI 48824  
(517) 355-6580 / Fax: (517) 323-1888

Julie Chamberlain  
Michigan Farm Bureau  
7373 West Saginaw Highway  
Lansing, MI 48909  
(517) 323-7000 / Fax: (517) 323-6793

## ► Department of Commerce (DOC)

### Great Lakes Environmental Research Laboratory

The laboratory participates in a local partnership program and offers tours of facilities and discussion on Great Lake problems.

Tom Nalepa  
Great Lakes Environmental Research Laboratory  
National Oceanic and Atmospheric Administration  
2205 Commonwealth Boulevard  
Ann Arbor, MI 48105-1593  
(734) 741-2285 / Fax: (734) 741-2055

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Al Miller and Jim Lubner  
Wisconsin Sea Grant  
University of Wisconsin  
1800 University Avenue  
Madison, WI 53705-4094  
(608) 262-0644 / Fax: (608) 263-2063

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Paul Bielawski and Linda Brown  
Eisenhower Professional Development Program  
Michigan Department of Education  
PO Box 30008  
Lansing, MI 48909  
(517) 335-5784 or 373-3921  
Fax: (517) 335-2473

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Stephanie Wasson  
Eisenhower Professional Development Program  
Michigan Department of Education  
Higher Education Management Services  
PO Box 30008  
Lansing, MI 48909  
(517) 373-8577 / Fax: (517) 373-2759

### Midwest Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

### North Central Regional Educational Laboratory (NCREL)

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

### North Central Regional Technology in Education Consortium (NCRTEC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCRTEC  
North Central Regional Educational Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [rknuth@ncrel.org](mailto:rknuth@ncrel.org)  
<http://www.ncrtec.org/>

Catherine Mozer Connor, R\*TEC Program Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

The office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Isle Royale National Park

Summer programs at the park offer information on natural and cultural resources and issues to a full spectrum of visitors. The park's new Junior Ranger Program and its workbook target students in grades 1-3 and 4-6. Wolves of Isle Royale National Park and Wetlands of Isle Royale National Park are two Traveling Trunk programs available to teachers wishing to educate students about the important role predators and wetlands play in the natural world and their significance to the park. Arrangements can be made for education programs on the island and on the mainland.

Smitty Parratt, Branch Chief of Interpretation and Resource Education  
Isle Royale National Park  
800 East Lakeshore Drive  
Houghton, MI 49931-1869  
(906) 487-7154 / Fax: (906) 482-8753

### Pictured Rocks National Lakeshore

A school-year enrichment program of in-class presentations and field trips is offered for students and teachers in Alger County, Michigan, the county encompassing the lakeshore. The mission of the outreach program is to enhance pre-K-12th grade students' interest, knowledge, and skills in science, social studies, and other disciplines through the hands-on, minds-on study of natural and cultural resources. A summer science day camp program offered for children in grades 4-6 focuses on ecology, the scientific method, and hands-on experience with field scientists. Education equipment and materials are available for loan.

David B. Kronk, Training Coordinator  
Pictured Rocks National Lakeshore  
N8391 Sand Point Road, PO Box 40  
Munising, MI 49862-0040  
(906) 387-2607 / Fax: (906) 387-4025  
E-mail: david\_kronk@nps.gov

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Dale Elshoff, Project WILD Coordinator  
Tollgate Education Center  
28115 Meadowbrook Road  
Novi, MI 48377-3128  
(810) 347-3860 / Fax: (810) 347-3862

### Seney National Wildlife Refuge

Spring and fall environmental education programs at the refuge inform students about wildlife management. Guided walks and in-class presentations are also available.

Division of Interpretation  
Seney National Wildlife Refuge  
HCR #2, Box 1  
Seney, MI 49883  
(906) 586-9851 / Fax: (906) 586-3800

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Douglas E. Stites, Vice President  
Michigan Jobs Commission  
201 North Washington Square  
Lansing, MI 48913  
(517) 373-6227 / Fax: (517) 373-0314

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Estela Hamersma, AGL-4  
FAA Great Lakes Region  
O'Hare Lake Officer Center  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7106 / Fax: (847) 294-7184

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Karen Conrad, Interim Director  
Aviation Education Resource Center  
Oakland University  
Aviation and Space Center  
216 O'Dowd Hall, Room 216  
Rochester, MI 48309-4401  
(313) 370-2485

Barbara Koscak  
Aviation Education Resource Center  
Project STARS  
PO Box 450082, Building 814  
Selfridge ANG Base, MI 48045  
(313) 466-4884

Thomas Krashen, Manager  
Michigan Department of Transportation  
Bureau of Aeronautics  
2700 East Airport Service Drive  
Lansing, MI 48906  
(517) 335-9977

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Suzanne Saric, Environmental Education Coordinator  
Environmental Protection Agency  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(312) 353-3209 / Fax: (312) 353-1155

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 5  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(800) 621-8431 / Fax: (312) 353-1155

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including

laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Lewis Research Center  
Educator Resource Center  
21000 Brookpark Road, MS 8-1  
Cleveland, OH 44135-3191  
(216) 433-2017

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jo Ann Charleston, Acting Chief  
Office of Educational Programs  
NASA Lewis Research Center  
21000 Brookpark Road, MS 7-4  
Cleveland, OH 44135-3191  
(216) 433-2957

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Central Michigan University  
Ronan Hall, Room 101  
Mt. Pleasant, MI 48859  
(517) 774-4387

NASA Regional Educator Resource Center  
Northern Michigan University  
The Seaborg Center  
Marquette, MI 49855  
(906) 227-2002

Oakland Schools Science, Mathematics, and Technology Center  
NASA Regional Educator Resource Center  
1480 Scott Lake Road  
Rochester, MI 48328  
(248) 683-7476

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Michigan Space Grant Consortium  
2106 SRB, University of Michigan  
Ann Arbor, MI 48109-2143  
(313) 747-3430

## ► National Science Foundation (NSF)

### Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Juanita Clay-Chambers  
Detroit Public Schools  
5057 Woodward Avenue, Room 932  
Detroit, MI 48202  
(313) 494-1092 / Fax: (313) 494-7864  
E-mail: jclaycha@sun.science.wayne.edu

# Minnesota

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Carol Shields, Director, CTR for 4-H Youth Development  
University of Minnesota  
College of Education and Human Development  
Minnesota CES  
340 Coffey Hall, 1420 Eckles Avenue  
St. Paul, MN 55108  
(612) 625-1235  
E-mail: cshields@mes.umn.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

BEST COPY AVAILABLE

Alan Withers  
Minnesota Department of Agriculture  
90 West Plato Boulevard  
St. Paul, MN 55107  
(612) 296-6688 / Fax: (612) 297-5522

► **Department of  
Commerce (DOC)**

**National Sea Grant College  
Program, COAST Operation  
Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Al Miller and Jim Lubner  
Wisconsin Sea Grant  
University of Wisconsin  
1800 University Avenue  
Madison, WI 53705-4094  
(608) 262-0644 / Fax: (608) 263-2063

► **Department of Education  
(ED)**

**Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Robert Crumpton and Dick Peterson  
Eisenhower Professional Development  
Program  
Minnesota Department of Education  
Capitol Square Building, Room 922  
St. Paul, MN 55101  
(612) 296-2703 / (612) 296-9866  
Fax: (612) 297-1795

**Eisenhower State Coordinators  
for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Nancy B. Walters  
Eisenhower Mathematics and Science  
Program  
Minnesota Higher Education Services Office  
Capitol Square  
550 Cedar Street  
St. Paul, MN 55101  
(612) 296-9777 / Fax: (612) 297-8880

**Midwest Consortium for  
Mathematics and Science  
Education**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and  
Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

**North Central Regional  
Educational Laboratory (NCREL)**

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

**North Central Regional  
Technology in Education  
Consortium (NCRTEC)**

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCRTEC  
North Central Regional Educational  
Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [rknuth@ncrel.org](mailto:rknuth@ncrel.org)  
<http://www.ncrtec.org/>

Catherine Mozer Connor, R\*TEC Program  
Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

► **Department of the  
Interior (DOI)**

**Bureau of Land Management  
Eastern States Office**

The Bureau of Land Management State Office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

**Minnesota Valley National Wildlife  
Refuge**

In addition to environmental education programs, the refuge offers plant and animal exhibits, interactive displays, computer programs, and interpretive lectures.

Other programs include the following:

- **The Explorer Post** is a high school student program that focuses on natural resource careers.
- **The Partner School Program** provides special benefits to participating schools, such as staff-led and offsite programs and equipment. In turn, the schools help with projects at the refuge.
- **School Group Orientations** provide an introduction to the ecology of the refuge.
- **Teacher Workshops** allow local teachers and youth leaders to visit the refuge to learn about the site and participate in hands-on curriculum activities that are available for students.

Suzanne Trapp, Park Ranger  
Minnesota Valley NWR  
3815 East 80th Street  
Bloomington, MN 55425  
(612) 854-5900 / Fax: (612) 725-3279  
E-mail: [Suzanne\\_Trapp@mail.fws.gov](mailto:Suzanne_Trapp@mail.fws.gov)

**Pipestone National Monument**

Lectures on anthropology and geology of the monument are available.



Division of Interpretation  
Pipestone National Monument  
Box 727  
Pipestone, MN 56164  
(507) 825-5464

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Jan Orr, Acting Project WILD Coordinator  
Department of Natural Resources  
Box 7, 500 Lafayette Road  
St. Paul, MN 55155  
(612) 297-4966 / Fax: (612) 297-4961

### Voyageurs National Park

The park's environmental education program is reaching out to more students in northern Minnesota and northwestern Ontario. Aquatic Exotic and Fur Trader Traveling Trunks are available for fourth and fifth grade classrooms. Fifth and sixth grade students come out to the park for Kids and their Environment, a boat trip exploring the park's cultural and natural history. A Nesting Project that uses GIS technology is also available.

Lynda Lancaster, Education Specialist  
Voyageurs National Park  
3131 Highway 53  
International Falls, MN 56649-8904  
(218) 283-9821 / Fax: (218) 285-7407

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Kathy Sweeney, Assistant Commissioner  
Workforce Preparation Branch  
Minnesota Department of Economic Security  
390 North Robert Street, First Floor  
St. Paul, MN 55101  
(612) 296-3700 / Fax: (612) 296-0994

### ► Department of Transportation (DOT)

#### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Estela Hamersma, AGL-4  
FAA Great Lakes Region  
O'Hare Lake Officer Center  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7106 / Fax: (847) 294-7184

#### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Gordon Hoff, Director  
Aviation Education Resource Center  
Minnesota DOT Office of Aeronautics  
Aviation Education Relations  
222 East Plato Boulevard  
St. Paul, MN 55107-1618  
(612) 297-7652

Julius Salinas, Aviation Director  
Aviation Education Resource Center  
Vermilion Community College  
1900 East Camp Street  
Ely, MN 55731  
(218) 365-7200

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Suzanne Saric, Environmental Education Coordinator  
Environmental Protection Agency  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(312) 353-3209 / Fax: (312) 353-1155

#### Minnesota Environmental Research Laboratory

In addition to teacher workshops, the laboratory provides environmental programs for students at various grade levels, curriculum materials, and science fairs. Laboratory tours may also be arranged.

Bob Drummond  
U.S. Environmental Protection Agency  
Environmental Research Laboratory  
6201 Congdon Boulevard  
Duluth, MN 55804  
(218) 702-5733

#### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 5  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(800) 621-8431 / Fax: (312) 353-1155

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Lewis Research Center  
Educator Resource Center  
21000 Brookpark Road, MS 8-1  
Cleveland, OH 44135-3191  
(216) 433-2017

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jo Ann Charleston, Acting Chief  
Office of Educational Programs  
NASA Lewis Research Center  
21000 Brookpark Road, MS 7-4  
Cleveland, OH 44135-3191  
(216) 433-2957

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Mankato State University  
Box 52, Armstrong Hall  
Mankato, MN 56002-8400  
(507) 389-5277

Center for Information Media  
NASA Regional Educator Resource Center  
St. Cloud State University  
720 4th Avenue, South CH-29  
St. Cloud, MN 56301  
(320) 255-2062

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Minnesota Space Grant Consortium  
University of Minnesota, Main Campus  
107 Ackerman Hall  
110 Union Street SE  
Minneapolis, MN 55455  
(612) 625-9002

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: weaselp@worldnet.att.net  
http://hprsi.net/

## Ohio

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

David Andrews, Acting Assistant  
Director and State Leader  
4-H Youth Development  
The Ohio State University  
Agriculture Administration Building  
2120 Fyffe Road  
Columbus, OH 43210-1084  
(614) 292-6996  
E-mail: andrews.12@osu.edu

## Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Judy Roush  
Agriculture Awareness Council  
PO Box 479  
Columbus, OH 43216-0479  
(614) 249-2429 / Fax: (614) 644-5702

## ► Department of Commerce (DOC)

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Al Miller and Jim Lubner  
Wisconsin Sea Grant  
University of Wisconsin  
1800 University Avenue  
Madison, WI 53705-4094  
(608) 262-0644 / Fax: (608) 263-2063

### Old Woman Creek National Estuarine Research Reserve

The reserve offers teacher workshops on how to use the reserve as an outdoor laboratory. Reservations are required.

Linda Feix, Education Coordinator  
Old Woman Creek National Estuarine  
Research Reserve  
2514 Cleveland Road, East  
Huron, OH 44839  
(419) 433-4601 / Fax: (419) 433-2851  
E-mail: lfeix@ocean.nos.noaa.gov

## ► Department of Defense (DoD)

### Wright Patterson Air Force Base

The base offers a range of programs for both teachers and students, including the Wright State Engineering Precollege Program, which is a partnership among the Air Force, the private sector, and Wright State University. Programs are designed for educators and students in the Dayton area. In addition, the base houses the Air Force Museum.

Margie Collier  
2130 8th Street, Suite 1  
AFRL/VAOO  
Wright Patterson AFB, OH 45433-7542  
(937) 255-5573

## ► Department of Education (ED)

### Eisenhower National Clearinghouse for Mathematics and Science Education (ENC)

ENC identifies and collects effective curriculum resources, creates high-quality professional development materials, and disseminates useful information and products to improve K-12 mathematics and science teaching and learning. For more information on ENC, see page vii.

Len Simutis, Director  
Eisenhower National Clearinghouse for  
Mathematics and Science Education  
The Ohio State University  
1929 Kenny Road  
Columbus, OH 43210-1079  
(614) 292-7784 / Fax: (614) 292-2066  
(800) 621-5785  
E-mail: [info@enc.org](mailto:info@enc.org)  
<http://www.enc.org/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Regina A. Lukich and Gregg Stubbs  
Eisenhower Professional Development  
Program  
Ohio Department of Education  
65 South Front Street, Room 611  
Columbus, OH 43215-4183  
(614) 466-5458 or 2761 / Fax: (614) 728-3058

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Marlene Rushay and Russ Utgard  
Eisenhower Professional Development  
Program  
Ohio Board of Regents  
30 East Broad Street, 36th Floor  
Columbus, OH 43266-0417  
(614) 752-9475 / (614) 752-9541  
Fax: (614) 466-5866

### ERIC Clearinghouse for Science, Mathematics, and Environmental Education

The clearinghouse's mission is to facilitate improved teaching, learning, and research in science, mathematics, and environmental education through the active exchange of information and services. As a component of the Educational Resources Information Center (ERIC), the clearinghouse collects, abstracts, and indexes materials for the ERIC database, the world's largest and most heavily used education-related information resource.

The database contains more than 850,000 records of reports, journal articles, instructional materials, and other items. It is accessible electronically through the Internet and at more than 1,000 physical locations around the world. Clearinghouse staff also serve educators at all levels by answering questions, providing training in use of the database, distributing educational materials electronically, disseminating practical information and documents to teachers and the general public, and developing publications used by teachers, parents, administrators, curriculum specialists, and others.

David Haury, Director  
ERIC Clearinghouse for Science,  
Mathematics, and Environmental Education  
The Ohio State University  
1929 Kenny Road  
Columbus, OH 43210-1080  
(614) 292-6717  
(800) 276-0462  
E-mail: [ericse@osu.edu](mailto:ericse@osu.edu)  
<http://www.ericse.org/>

### Midwest Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and  
Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

### North Central Regional Educational Laboratory (NCREL)

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

### Northeast Regional Technology in Education Consortium (NetTech)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribaud, Co-Directors, NetTech  
City University of New York  
555 West 57th Street, 16th Floor  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: [blbbh@cunyvm.cuny.edu](mailto:blbbh@cunyvm.cuny.edu)  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: [Kathy\\_Fuller@ed.gov](mailto:Kathy_Fuller@ed.gov)

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching

assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

### Fernald Environmental Management Project

The project manages programs for both students and teachers. In addition, the project sponsors a speaker's bureau, academic competitions, and science fairs. Archaeology: Can You Dig It? is a cultural resources program based on the discovery of more than 100 Native American sites at Fernald. A curriculum includes a video, a board game, and more than 20 lessons that teach about Native Americans from this part of the country.

Sue Walpole  
Public Affairs  
Fernald Environmental Management Project  
PO Box 538704  
Cincinnati, OH 45253-8704  
(513) 648-4026 / Fax: (513) 648-4011  
E-mail: swalpole@fernald.gov

### ► Department of the Interior (DOI)

#### Bureau of Land Management Eastern States Office

The Bureau of Land Management State Office provides information about education-

al programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### Cuyahoga Valley National Recreation Area

The Cuyahoga Valley Environmental Education Center is committed to providing innovative programs for students and educators from northeastern Ohio and beyond. This environmental learning facility is jointly operated by the National Park Service and its nonprofit partner, the Cuyahoga Valley Association. Surrounded by 500 acres of natural habitats, the center includes two campuses, each with 64 beds, classroom space, science laboratory, and dining hall.

Students participate in a four-day program with multicultural and global emphasis. The curriculum A River Runs Through It blends issues, nature, and the arts into a complete tapestry. The curriculum starts with grades 4-6 and moves up to high school. Program teaching staff participate in a college internship. Weekend workshops for teachers are offered periodically. A day-use program includes At the Water's Edge and Among the Trees, two hands-on environmental education classes for area school groups interested in a day visit to the park.

Deb Yandala, Executive Director  
Cuyahoga Valley Environmental Education Center  
3675 Oak Hill Road  
Peninsula, OH 44264  
(216) 657-2796 / Fax: (216) 657-2058  
E-mail: info@cveec.org

#### Ottawa National Wildlife Refuge

Environmental education programs at the refuge include guided tours and teacher guides and workshops.

Outdoor Recreation Planner  
Ottawa National Wildlife Refuge  
14000 West State Road, Route 2  
Oak Harbor, OH 43449  
(216) 898-0014 / Fax: (216) 898-7895

#### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Paul Schiff, Project WILD Coordinator  
Ohio Division of Wildlife  
1840 Belcher Drive, Fountain Square G-1  
Columbus, OH 43224  
(614) 265-6316 / Fax: (614) 262-1171

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Evelyn Bissonnette, Director  
Job Training Partnership-Ohio  
Ohio Bureau of Employment Services  
145 South Front Street, Fourth Floor  
PO Box 1618  
Columbus, OH 43216  
(614) 466-3817 / Fax: (614) 752-6582

### ► Department of Transportation (DOT)

#### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
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Estela Hamersma, AGL-4  
 FAA Great Lakes Region  
 O'Hare Lake Officer Center  
 2300 East Devon Avenue  
 Des Plaines, IL 60018  
 (847) 294-7106 / Fax: (847) 294-7184

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Stephen M. Quilty, A.A.E.  
 Aviation Education Resource Center  
 Bowling Green State University  
 Aerotechnology Program  
 Technology Annex  
 Bowling Green, OH 43403-0307  
 (419) 372-8926

## **► Environmental Protection Agency (EPA)**

### **Center for Environmental Learning**

The center coordinates environmental education programs for both the Risk Reduction and the Environmental Monitoring Systems Laboratories. It also sponsors environmental conferences and conventions, the development of curriculum materials, and a variety of programs for students in grades K-12.

Environmental Education Coordinator  
 Center for Environmental Learning  
 26 West Martin Luther Avenue  
 Cincinnati, OH 45268  
 (513) 569-7212 / Fax: (513) 569-7770

### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Suzanne Saric, Environmental Education Coordinator  
 Environmental Protection Agency  
 77 West Jackson Boulevard (PI-19J)  
 Chicago, IL 60604  
 (312) 353-3209 / Fax: (312) 353-1155

## **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 5  
 77 West Jackson Boulevard (PI-19J)  
 Chicago, IL 60604  
 (800) 621-8431 / Fax: (312) 353-1155

## **► National Aeronautics and Space Administration (NASA)**

### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Lewis Research Center  
 Educator Resource Center  
 21000 Brookpark Road, MS 8-1  
 Cleveland, OH 44135-3191  
 (216) 433-2017

### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jo Ann Charleston, Acting Chief  
 Office of Educational Programs  
 NASA Lewis Research Center  
 21000 Brookpark Road, MS 7-4  
 Cleveland, OH 44135-3191  
 (216) 433-2957

## **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
 University of Cincinnati  
 Curriculum Resources Center  
 600 Blegen Library  
 Cincinnati, OH 45221-0219  
 (513) 556-1430

Eisenhower National Clearinghouse  
 NASA Educator Resource Center  
 1929 Kenny Road  
 Columbus, OH 43210-1079  
 (614) 292-8389

## **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Ohio Space Grant Consortium  
 Ohio Aerospace Institute  
 22800 Cedar Point Road  
 Brook Park, OH 44142  
 (216) 962-3020

## **► National Science Foundation (NSF)**

### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Wimberly Royster  
 Kentucky Science and Technology Council, Inc.  
 200 West Vine Street, Suite 420  
 Lexington, KY 40507  
 (606) 255-3511, ext. 226  
 Fax: (606) 259-0986  
 E-mail: royster@pop.uky.edu

## Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Carolyn Ray  
Cleveland Schools USI  
1380 East 6th Street  
Cleveland, OH 44114  
(216) 574-8180 / Fax: (216) 574-8593

Camille Nasbe  
Columbus Public Schools  
546 Jack Gibbs Boulevard  
Columbus, OH 43215  
(614) 365-8017 / Fax: (614) 365-5896

# Wisconsin

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Gregory K. Hutchins, State Program Leader and Assistant Dean  
University of Wisconsin  
Wisconsin CES  
432 North Lake Street  
637 Extension Building  
Madison, WI 53705  
(608) 263-1095 / Fax: (608) 262-9166  
E-mail: hutchins@admin.uwex.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Bob Leege  
Wisconsin Farm Bureau  
7010 Mineral Point Road  
Madison, WI 53705  
(608) 836-5575

## ► Department of Commerce (DOC)

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Al Miller and Jim Lubner  
Wisconsin Sea Grant  
University of Wisconsin  
1800 University Avenue  
Madison, WI 53705-4094  
(608) 262-0644 / Fax: (608) 263-2063

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

John C. Bell  
Eisenhower Professional Development Program  
Department of Public Instruction  
125 South Webster Street, PO Box 7841  
Madison, WI 53707-7841  
(608) 267-9270 / Fax: (608) 267-1052

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Gary Britton  
Eisenhower Professional Development Program  
University of Wisconsin Center  
400 University Drive  
West Bend, WI 53095  
(414) 335-5200 / Fax: (414) 335-5220

### Midwest Consortium for Mathematics and Science Education

The Eisenhower Regional Consortium provides information and technical assistance to

help states and school districts improve mathematics and science education.

Gilbert Valdez, Director  
Midwest Consortium for Mathematics and Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>

### North Central Regional Educational Laboratory (NCREL)

NCREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Jeri Nowakowski, Executive Director  
NCREL  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4700 / Fax: (630) 571-4716  
(800) 356-2735  
<http://www.ncrel.org/>

### North Central Regional Technology in Education Consortium (NCRTEC)

ED established the Regional Technology in Education (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Randy Knuth, Director  
NCRTEC  
North Central Regional Educational Laboratory  
1900 North Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
(630) 571-4710 / Fax: (630) 218-4989  
E-mail: [rknuth@ncrel.org](mailto:rknuth@ncrel.org)  
<http://www.ncrtec.org/>

Catherine Mozer Connor, R\*TEC Program Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

## ► Department of the Interior (DOI)

### Apostle Islands National Lakeshore

Apostle Island School is a joint venture involving the park, Northland College, and the Sigurd Olson Environmental Institute. It provides environmental education for fourth-, fifth-, and sixth-grade children in northern Wisconsin. The program includes pre-visit classroom instruction and either a day trip or a three-day overnight experience in the park, led by rangers and environmental education students from Northland College. Some 600 children, 25 teachers, and 16 student teachers are involved with the program.

Myra Dec, Chief of Resource Education  
Apostle Islands National Lakeshore  
Route 1, Box 4  
Bayfield, WI 54814  
(715) 779-3397

### Bureau of Land Management Eastern States Office

The office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Valeri Humphrey, Project WILD Coordinator  
Wisconsin Department of Natural Resources  
Box 7921  
Madison, WI 53707  
(608) 266-0870 / Fax: (608) 264-6293

### St. Croix National Scenic Riverway

Rivers Are Alive is a two-part program. Part I, Web of Life, presented at the school, introduces habitats and interdependence. Part II, Let's Go Mucking, is a hands-on introduction to plants and animals in and near the river. The students wade into the river with small nets to catch, examine, and release aquatic life. Group discussion of biodiversity, water quality, and waterway protection follows. In the Habitat Assessment program, students measure river-side features including water depth and velocity, percent of river bank erosion, extent of riparian zone, and more. Intended for middle school or older students, this program is based on the River Watch Water Quality Program.

Terrence O'Halloran, Nameragon District Interpreter  
St. Croix National Scenic Riverway  
Box 100  
Trego, WI 54888  
(715) 635-8346 / Fax: (715) 635-8823

Jean Van Tatenhove, Park Ranger  
St. Croix National Scenic Riverway  
Route 1, Box 134  
Pine City, MN  
(320) 629-2148 / Fax: (320) 629-7655

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

June Suhling, Administrator  
Division of Workforce Excellence  
Wisconsin Department of Workforce Development  
201 East Washington Avenue, Room 201X  
PO Box 7972  
Madison, WI 53707  
(608) 266-2439 / Fax: (608) 267-2392

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and mate-

rials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Estela Hamersma, AGL-4  
FAA Great Lakes Region  
O'Hare Lake Officer Center  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7106 / Fax: (847) 294-7184

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Chuck Larsen  
EAA Aviation Center  
Aviation Education Resource Center  
Experimental Aircraft Association  
3000 Poberezny Road  
Oshkosh, WI 54903-3065  
(414) 426-4800

Michael J. Wallschlaeger, Chairman  
Aviation Education Resource Center  
University of Wisconsin at Superior  
Division of Education  
1800 Grand Avenue  
Superior, WI 54880-2898  
(715) 394-8309

Duane Esse  
Aviation Education Resource Center  
DOT Bureau of Aeronautics  
4802 Sheboygan Avenue  
PO Box 7914  
Madison, WI 53707-7914  
(608) 266-3351

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers

and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Suzanne Saric, Environmental Education Coordinator  
Environmental Protection Agency  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(312) 353-3209 / Fax: (312) 353-1155

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 5  
77 West Jackson Boulevard (PI-19J)  
Chicago, IL 60604  
(800) 621-8431 / Fax: (312) 353-1155

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Lewis Research Center  
Educator Resource Center  
21000 Brookpark Road, MS 8-1  
Cleveland, OH 44135-3191  
(216) 433-2017

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jo Ann Charleston, Acting Chief  
Office of Educational Programs  
NASA Lewis Research Center  
21000 Brookpark Road, MS 7-4  
Cleveland, OH 44135-3191  
(216) 433-2957

#### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
University of Wisconsin at LaCrosse  
Murphy Library, Room 270  
LaCrosse, WI 54601  
(608) 785-8148

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Wisconsin Space Grant Consortium  
University of Wisconsin at Milwaukee  
333 Architecture and Urban Planning Building  
2131 East Hartford Avenue  
Milwaukee, WI 53211  
(414) 229-5940

### **► National Science Foundation (NSF)**

#### **Urban Systemic Initiatives (USI) Program**

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and

universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

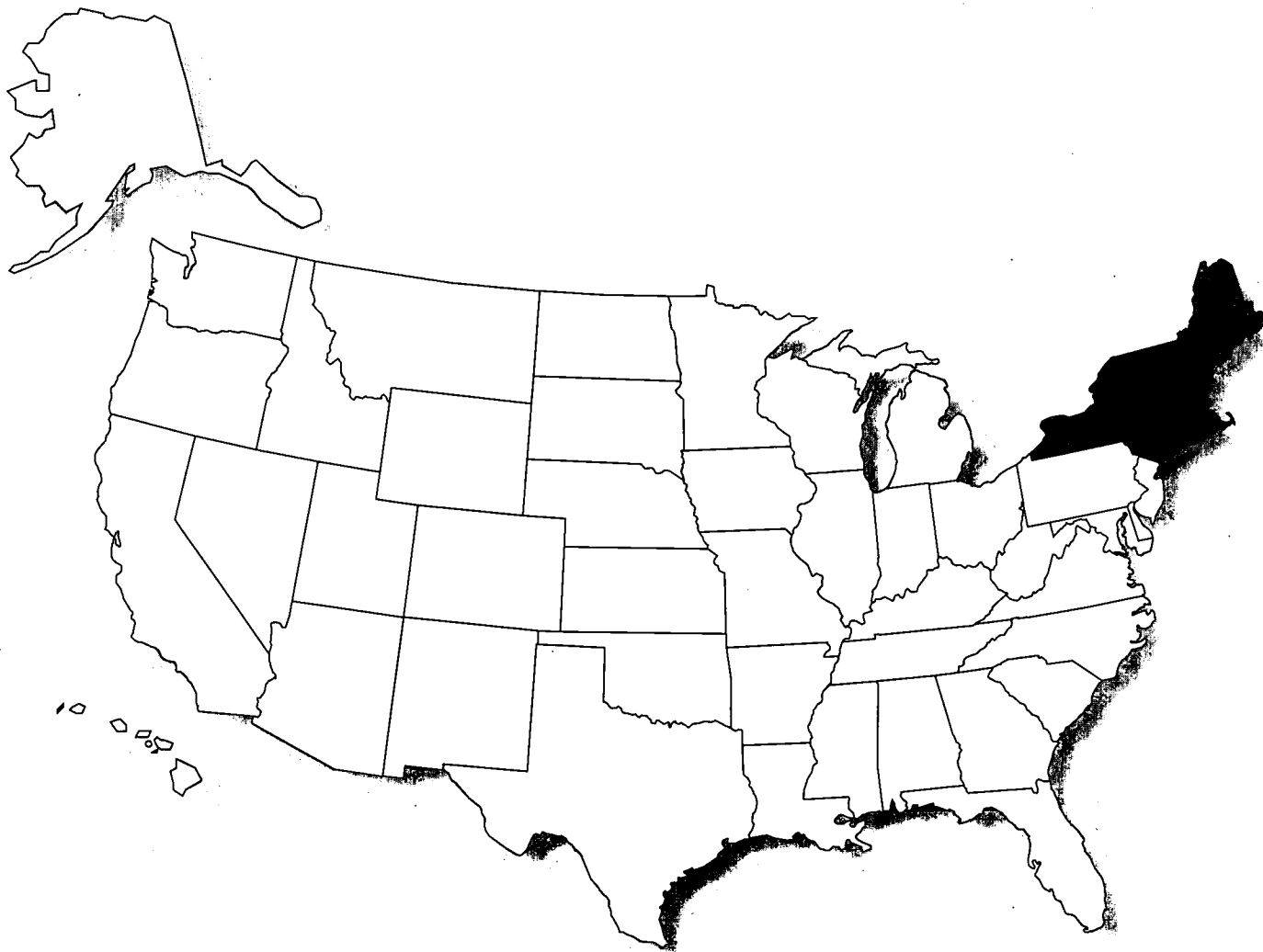
Mary Henry  
Milwaukee Public Schools  
COSMIC Center  
6620 West Capitol Drive  
Milwaukee, WI 53216  
(414) 438-3630 / Fax: (414) 438-3470  
E-mail: henry@mail.milwaukee.k12.wi.us



- ▶ Connecticut
- ▶ Maine
- ▶ Massachusetts
- ▶ New Hampshire
- ▶ New York
- ▶ Puerto Rico
- ▶ Rhode Island
- ▶ Vermont
- ▶ Virgin Islands

# Northeast and Islands Region

**Eisenhower Regional Alliance  
for Mathematics and Science Education Reform**



# Eisenhower Regional Alliance for Mathematics and Science Education Reform

**T**he Eisenhower Regional Alliance for Mathematics and Science Education Reform is one of 10 Eisenhower Mathematics and Science Consortia established by the U.S. Department of Education. The National Network of Eisenhower Regional Consortia and the Eisenhower National Clearinghouse for Mathematics and Science Education form a coordinated, field-based national infrastructure to promote systemic educational reform. The Alliance is managed by the Technical Education Research Centers (TERC), a non-profit education research and development organization based in Cambridge, Massachusetts and dedicated to improving mathematics and science learning.

The Alliance's goal is to provide professional development, technical assistance, information dissemination, and other services to strengthen the efforts of state and local mathematics and science education reform leaders. To accomplish this, the Alliance has created four collaborative structures: Statewide Action Teams, Regional Networks, Alliance Schools, and Electronic Services.

## Statewide Action Teams

Each state or island has a team of math, science, and technology (MST) reform leaders who work with the Alliance to identify local and state priorities for MST reform services and activities. Team members are drawn from within the state or island and include K-12 educators, higher education faculty, Statewide Systemic Initiative (SSI) leaders, state Eisenhower coordinators, state mathematics and science supervisors, science center directors, and teacher association leaders.

Statewide Action Teams support their local Alliance Schools; disseminate valuable information to the K-16 MST community; encourage participation in Alliance-sponsored institutes, pilots, and other initiatives; and foster increased statewide collaboration among diverse MST reform efforts. An 18-member Advisory Board, consisting of two representatives per state team, establishes regional priorities for resource allocation, ensures coordination across the region, and advises the Alliance staff.

## Regional Networks

To promote region-wide collaboration, the Alliance has four regional reform networks of local and state educators. These networks address key aspects of MST reform: equity, K-16 collaboration, curriculum/instruction/assessment, and informal education. The goal of each network is to make expertise related to its focus accessible to educators across the region. Network services include an open e-mail listserv, professional development institutes, sustained technical assistance, pilot projects, Web-based information, and newsletters. Network membership is free and open to anyone interested. Each network is led by a steering committee responsible for setting priorities for Alliance initiatives across the region, developing services for Alliance Schools and network members, expanding network membership, and disseminating network-related information and resources.

The focus of the Curriculum/Instruction/Assessment Network has been to support the implementation of state frameworks and standards-based curriculum and to provide leadership training to state and local educators. The Equity Network has trained facilitators who assist school districts across the region to develop strong, data-driven, local evaluation systems to inform their decision making. The K-16 Network has provided extensive support for the development of state-based K-16 networks and cross-state collaboration on K-16 reform. The Informal Education Network provides resources, professional development, and networking opportunities to museum and other informal science educators in the Northeast, and supports state and regional efforts to promote the effectiveness and professionalism of informal science education.

## Alliance Schools

The Alliance works with a network of K-12 schools committed to systemic reform efforts and sustained partnerships with state and local leaders in MST education. Initially, 36 schools were selected by the Regional Alliance's state teams and a second group of 36 schools has been added. Alliance Schools represent a cross-section of grade levels, demographics, and experience with MST reform; however, schools enrolling substantial

numbers of underserved populations represent a majority of the school sites. Alliance School Partners include representatives of the region's State Systemic Initiatives (SSI), leaders of the major state MST organizations, professional development specialists, museum and science center educators, and faculty from colleges and universities. The goals of the partnerships are to build capacity in each school to support comprehensive MST reform and to develop a model for expanding the number of partnerships across the region.

Each Alliance School has a local plan for MST reform, and the Regional Alliance supports an array of professional development and technical assistance opportunities based on the local plans and common issues and concerns across the schools. The Alliance uses its electronic networks to connect the schools to each other, their state partners, the Alliance staff, and the wider educational community. Participating schools that did not have e-mail and Internet access received a school account, and each school has been provided with a World Wide Web site where faculty and students can publish information and share ideas about curriculum and programs. During the summer, the Alliance hosts an Alliance Schools Institute, where school teams and their state partners meet to further develop their professional community, their local MST plans, and their technical skills.

## Electronic Services

The Alliance information, communication, and dissemination efforts are supported by The Hub (<http://ra.terc.edu/>), its electronic network. The Hub provides Web access to a wide range of resources and services, including listservs and discussion groups; statewide action team and regional network information; Alliance Schools Web sites; and an extensive collection of online resources, MST documents, and links to valuable MST Web sites.

The Alliance also publishes two newsletters. *Alliance Access* provides information about key issues in MST reform, Alliance activities, and resources in math, science, and technology. *MST Under Construction* is the newsletter for the Alliance Schools Network. These newsletters are free to interested educators and also can be found on The Hub.

The Alliance is developing a handbook titled *Using Data—Getting Results: A Guidebook for School-Based Mathematics and Science Reform Teams*. The handbook's purpose is to support local educators in using student learning and other data to better understand and solve problems they face on the road to MST reform. It includes strategies for monitoring student learning results; overcoming obstacles to equity; sustaining changes in how mathematics and science are taught and assessed; and building critical supports for MST reform such as effective professional development and public engagement. Each chapter contains tools for collecting and analyzing data, annotated resource listings, and vignettes and case studies that make inquiry into MST reform come alive.

**Mark Kaufman**  
*Director*

**Robert McLaughlin**  
*Co-Director*

**Jeanne Harmon**  
*Alliance Schools Coordinator*

**Molly Singsen**  
*Outreach Coordinator*

**Nancy Love**  
*Professional Development Specialist*

**Marjorie Woodwell**  
*Science Specialist*

**Myriam Steinback**  
*Mathematics Specialist*

**Bridget Mooney**  
*Cybrarian*

**Rosalie Toubes**  
*Administrative Coordinator*

**Beth Lish**  
*Administrative Assistant*

**Ken Mayer**  
*Communications*

**Melissa Wahl**  
*Web Designer*

Eisenhower Regional Alliance for Mathematics  
and Science Education Reform

TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax (617) 349-3535  
E-mail: [alliance@terc.edu](mailto:alliance@terc.edu)  
<http://ra.terc.edu/>

## Connecticut

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Nancy H. Bull, State 4-H Leader,  
Associate Dean  
University of Connecticut  
Cooperative Extension System  
1376 Storrs Road, U-36  
Storrs, CT 06269-4036  
(860) 486-1987 / Fax: (860) 486-0264  
E-mail: [nbull@canr1.cag.uconn.edu](mailto:nbull@canr1.cag.uconn.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Bernadet Kayan  
510 Pigeon Hill Road  
Windsor, CT 06095  
(203) 683-1922

Alfred Mannebach  
University of Connecticut  
249 Glenbrook Road  
Storrs, CT 06269-2093  
(203) 486-0246

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Robert Kent  
New York Sea Grant  
Cornell University Laboratory  
3059 Sound Avenue  
Riverhead, NY 11901-1098  
(516) 727-3910 / Fax: (516) 727-3611

### ► Department of Defense (DoD)

#### Nautilus Memorial/Submarine Force Library and Museum

This facility displays the evolution of submarine development from the Revolutionary War to modern submarines. Visitors can tour *Nautilus*, the world's first nuclear-powered submarine. Reservations are requested for groups of 20 or more. Admission and parking are free.

Submarine Force Museum  
Naval Submarine Base, New London  
Groton, CT 06349-5571  
(860) 694-3558 / (800) 343-0079

#### Naval Submarine Base, New London

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, Rhode Island, and Vermont.

Lena Blanch  
COMSUBGRU TWO  
Commander, Submarine Group Two  
Naval Submarine Base, New London  
Box 100  
Groton, CT 06349-5100  
(860) 694-4779

### ► Department of Education (ED)

#### The Eisenhower Regional Alliance for Mathematics and Science Education Reform

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics  
and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: [alliance@terc.edu](mailto:alliance@terc.edu)  
<http://ra.terc.edu/>

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

James Dargati  
Eisenhower Professional Development  
Program  
Connecticut Department of Education  
PO Box 2219  
Hartford, CT 06145  
(203) 566-6619 / Fax: (203) 566-5623

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Connie Fraser  
Eisenhower Professional Development  
Program  
Connecticut Department of Higher  
Education  
61 Woodland Street  
Hartford, CT 06105  
(860) 987-1400

### **Northeast and Islands Regional Educational Laboratory at Brown University (LAB)**

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

### **Northeast Regional Technology in Education Consortium (NetTech)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribauda,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

### **► Department of the Interior (DOI)**

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental  
Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical  
Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

#### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Diane A. Chisnall-Joy  
Environmental Curriculum Coordinator  
Department of Environmental Protection  
79 Elm Street  
Hartford, CT 06106  
(203) 424-3599 / Fax: (203) 566-7292

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

James P. Butler, Commissioner  
Connecticut State Department of Labor  
200 Folly Brook Boulevard  
Wethersfield, CT 06109  
(203) 566-4280 / Fax: (203) 566-1520

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.



Shelia Bauer, ANE-40  
FAA New England Region  
12 New England Executive Park  
Burlington, MA 01803  
(781) 238-7378 / Fax: (781) 238-7377

Vivian Manzione, Assistant Director  
Platt/Sikorsky School for Aviation  
Great Meadow Road  
Stratford, CT 06497  
(203) 381-9250

### ► Environmental Protection Agency (EPA)

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Environmental Education Coordinator  
Environmental Protection Agency  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 1  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### ► National Aeronautics and Space Administration (NASA)

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Connecticut Space Grant Consortium  
University of Hartford  
United Technology Hall  
West Hartford, CT 06117  
(203) 768-4866

### ► National Science Foundation (NSF)

#### **Statewide Systemic Initiatives (SSI) Program**

Connecticut's SSI program includes the Connecticut Academy for Education in Mathematics, Science, and Technology; curriculum revisions; collaboration among teacher education programs and science centers; public science literacy projects; and projects designed to involve businesses with school districts.

Richard Cole, Director  
Connecticut Academy  
211 South Main Street  
Middletown, CT 06457  
(860) 346-1177 / Fax: (860) 346-2157  
E-mail: rcole@ctacad.org

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## **Maine**

### ► Department of Agriculture (USDA)

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

John Rebar, Program Administrator, 4-H  
University of Maine CES  
5741 Libby Hall, Room 103  
Orono, ME 04469-5741  
(207) 581-3188 / Fax: (207) 581-1387  
E-mail: jrebar@umce.umext.maine.edu

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Buzz Gamble  
Department of Education  
Station #23  
Augusta, ME 04222-0433  
(207) 287-5899

### ► Department of Commerce (DOC)

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Robert Kent  
New York Sea Grant  
Cornell University Laboratory  
3059 Sound Avenue  
Riverhead, NY 11901-1098  
(516) 727-3910 / Fax: (516) 727-3611

### **Wells National Estuarine Research Reserve**

The reserve has an onsite program for fourth grade students, as well as a Junior Research summer program. Estuarine ecology curriculum materials for grades K-8 are also available. Reservations are required.

Education Coordinator  
Wells National Estuarine Research Reserve  
342 Laudhom Road  
Wells, ME 04090  
(207) 646-1555 / Fax: (207) 646-2930

### ► **Department of Defense (DoD)**

#### **Naval Air Station, Brunswick**

The station participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations in the area.

NAS Brunswick  
Commanding Officer (PAO)  
Brunswick, ME 04011-5001  
(207) 921-2000

### ► **Department of Education (ED)**

#### **The Eisenhower Regional Alliance for Mathematics and Science Education Reform**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: [alliance@terc.edu](mailto:alliance@terc.edu)  
<http://ra.terc.edu/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Thomas Keller  
Eisenhower Professional Development Program  
Maine Department of Education  
State House Station #23  
Augusta, ME 04333  
(207) 287-5920 / Fax: (207) 287-5927

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Jacqueline P. Mitchell  
Eisenhower Professional Development Program  
Maine Department of Education  
State House Station #23  
Augusta, ME 04333  
(207) 289-5937 / Fax: (207) 287-5927

#### **Northeast and Islands Regional Educational Laboratory at Brown University (LAB)**

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

#### **Northeast Regional Technology in Education Consortium (NetTech)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribaud, Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: [blbbh@cunyvm.cuny.edu](mailto:blbbh@cunyvm.cuny.edu)  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: [Kathy\\_Fuller@ed.gov](mailto:Kathy_Fuller@ed.gov)

### ► **Department of the Interior (DOI)**

#### **Acadia National Park**

The park offers guided tours and nature walks, in addition to other selected environmental education activities.

Office of Interpretation  
Acadia National Park  
PO Box 177  
Bar Harbor, ME 04609  
(207) 288-5456

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Craig Brook National Fish Hatchery**

The hatchery offers the programs The Atlantic Salmon—Its Natural History and the USFWS Restoration Efforts in Maine.

Edward Peter Steenstra, Outdoor Recreation Planner  
Craig Brook NFH  
Hatchery Road  
East Orland, ME 04431  
(207) 469-7300 / Fax: (207) 469-6847

#### **Gulf of Maine Project**

The Wild Gulf provides teachers with tools to bring the Gulf of Maine into the classroom and help students develop a watershed-wide perspective about living resources. The Wild

Gulf poster series and workbook provide basic information about the Gulf and suggest ideas for using the four posters. *The Almanac* is an annotated catalog covering an array of environmental subjects and providing a description of educational materials, facilities, and resources currently available to teachers and individuals.

Lois Winter, Outreach Specialist  
Gulf of Maine Project  
4R Fundy Road  
Falmouth, ME 04105  
(207) 781-8364 / Fax: (207) 781-8369  
E-mail: r5es\_gomp@mail.fws.gov

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### **Moosehorn National Wildlife Preserve**

Programs at the preserve include guided nature tours and in-class presentations. Curriculum materials are available upon request.

Public Use Specialist  
Moosehorn National Wildlife Preserve  
PO Box 1077  
Calsis, ME 04619  
(207) 454-3521 / Fax: (207) 454-2550

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Lisa Kane, Project WILD Coordinator  
Maine Department of Inland Fisheries  
284 State Street  
Augusta, ME 04333  
(207) 289-3303 / Fax: (207) 287-6395

### **Rachel Carson National Wildlife Refuge**

Outdoor Environmental Education is a residential program. The basic curriculum topics include forest, freshwater, astronomy, bioscope, marine bioscope, ocean, and coastal zone management. Several optional outdoor classes all include field exercises.

Graham W. Taylor, Refuge Operations Specialist  
Rachel Carson NWR  
RR2, Box 751  
Wells, ME 04090  
(207) 646-9226 / Fax: (207) 646-6554  
E-mail: r5rw\_rcnwr@mail.fws.gov

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Valerie Landry, Commissioner  
Maine Department of Labor  
20 Union Street, PO Box 309  
Augusta, ME 04330  
(207) 287-3788 / Fax: (207) 287-5292

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

#### **► The Aviation Career Education (ACE)**

**Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

► **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

► **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Shelia Bauer, ANE-40  
FAA New England Region  
12 New England Executive Park  
Burlington, MA 01803  
(781) 238-7378 / Fax: (781) 238-7377

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Sue Doner  
Aviation Education Resource Center  
Kennebec Valley Technical College  
92 Western Avenue  
Fairfield, ME 04937-0020  
(207) 453-9762

Sara Jane Poli  
Aviation Education Resource Center  
Biddeford School Department  
Maplewood Avenue  
Biddeford, ME 04005  
(207) 282-8280

Mark Sanborn, Assistant Director  
Aviation Education Resource Center  
Penobscot Nation Tribal Administration  
Vocational Training and Education  
6 River Road, Community Building  
Indian Island, ME 04468  
(207) 827-7776

Timothy D. Crowley, Dean of Students  
Aviation Education Resource Center  
Northern Maine Technical Center  
33 Edgemont Drive  
Presque Isle, ME 04769  
(207) 769-2461

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Environmental Education Coordinator  
Environmental Protection Agency  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 1  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Maine Space Grant Consortium  
Maine Science and Technology Foundation  
87 Winthrop Street  
Augusta, ME 04330  
(207) 621-6350

## Massachusetts

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Shirley Mietlicki, 4-H YFDP Coordinator  
University of Massachusetts  
Massachusetts CES  
204 Skinner Hall  
Amherst, MA 01003-6910  
(413) 545-4420 / Fax: (413) 545-4410  
E-mail: mietlicki@umext.umass.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state man-

ages its own programs, with assistance from agribusiness, educational institutions, and government.

Deborah C. Hogan  
c/o PO Box 1171  
Lakeville, MA 02347  
(508) 336-4426

## ► Department of Commerce (DOC)

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Robert Kent  
New York Sea Grant  
Cornell University Laboratory  
3059 Sound Avenue  
Riverhead, NY 11901-1098  
(516) 727-3910 / Fax: (516) 727-3611

### Stellwagen Bank National Marine Sanctuary

This recently designated marine sanctuary is developing environmental science education programs.

Ann Smrcina, Education Coordinator  
Stellwagen Bank National Marine Sanctuary  
14 Union Street  
Plymouth, MA 02360  
(508) 747-1691 / Fax: (508) 747-1949

### Wauquoit Bay National Estuarine Research Reserve

The reserve offers intern programs, interpretive walks, and watershed curriculum.

Joan Muller, Education Coordinator  
Wauquoit Bay National Estuarine Research Reserve  
PO Box 3092  
Wauquoit, MA 02536  
(508) 457-0495 / Fax: (508) 727-5537  
E-mail: wbnerr@capecod.net

## ► Department of Defense (DoD)

### Science and Engineering Apprentice Program

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience



for high school students attending school near this participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer.

Marilyn Joy  
U.S. Army Soldier Systems Command  
Attn: AMSSC-SDP  
Natick, MA 01760-5013  
(508) 233-5089

### **U.S. Army Natick Research, Development, and Engineering Center**

The center offers informal internships and mentoring activities to students in a variety of disciplines. Center staff also participate in the U.S. Army High School Science and Mathematics Faculty Summer Research Program administered by the Army Research Office.

U.S. Army Natick Research, Development, and Engineering Center  
Kansas Street  
Natick, MA 01760-5000  
(508) 233-4300

### **► Department of Education (ED)**

#### **The Eisenhower Regional Alliance for Mathematics and Science Education Reform**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: [alliance@terc.edu](mailto:alliance@terc.edu)  
<http://ra.terc.edu/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Neil Davidson, Executive Director  
Division School Programs  
Eisenhower Professional Development Program  
Massachusetts Department of Education  
350 Main Street  
Malden, MA 02148-5023  
(781) 388-3300, ext. 243  
Fax: (781) 388-3395

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Lynette Robinson-Weening  
Eisenhower Professional Development Program  
Massachusetts Higher Education Coordinating Council  
McCormack Building, Room 1401  
One Ashburton Place  
Boston, MA 02108-1696  
(617) 727-7785, ext. 246  
Fax: (617) 727-6397

#### **Northeast and Islands Regional Educational Laboratory at Brown University (LAB)**

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

#### **Northeast Regional Technology in Education Consortium (NetTech)**

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Bonnie Brownstein and Michael Ribaudo,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: [blbbh@cunyvm.cuny.edu](mailto:blbbh@cunyvm.cuny.edu)  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: [Kathy\\_Fuller@ed.gov](mailto:Kathy_Fuller@ed.gov)

### **► Department of Energy (DOE)**

#### **Bates Linear Accelerator Center**

The center supports nuclear and particle physics experiments by researchers from approximately 40 educational institutions. It has recently added continuous beam capability. Tours, tutorials, and mini-workshops are available for civic groups and precollege field trips.

Ken Jacobs, Research Scientist  
Bates Linear Accelerator Center  
PO Box 846  
Middleton, MA 01949  
(617) 253-9200 / Fax: (617) 253-9599  
E-mail: [kjacobs@mit.edu](mailto:kjacobs@mit.edu)  
<http://mitbates.mit.edu/>

### **► Department of the Interior (DOI)**

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Cape Cod National Seashore**

The seashore offers a residential environmental education program for students. Curriculum materials and other onsite activities are available upon request.

Division of Interpretation  
Cape Cod National Seashore  
South Wellsfleet, MA 02663  
(508) 349-3785

### **Cronin National Salmon Station**

The Atlantic Salmon Restoration program consists of staff visiting schools and showing slides, giving demonstrations, or conducting class discussions on Atlantic salmon. Visits are also made to the hatchery to see and feed the fish and to learn about salmon life and restoration efforts. This program is adaptable to a large variety of groups.

Bernard M. Novak, Jr., Hatchery Manager  
Cronin National Salmon Station  
51 East Plumtree Road  
Sunderland, MA 01375  
(413) 548-9010 / Fax: (413) 548-9628

### **Great Meadows National Wildlife Refuge**

The refuge operates a classroom laboratory for wetlands study. Teachers must complete a wetlands workshop prior to conducting a class in the laboratory. National Wildlife Week, sponsored by the National Wildlife Federation (NWF), is held each April. Great Meadows National Wildlife Refuge serves as a distribution point for approximately 300 kits for school teachers in the area, mostly eastern Massachusetts. Each kit contains lesson plans for teachers, student pages, and promotional materials on the theme selected by the NWF each year.

The Wetlands Teacher Workshop is a one-day program introducing teachers and youth group leaders to the biology of pond and freshwater marsh habitats of the refuge; the onsite classroom laboratory and its use; and equipment available to teachers for their self-guided onsite environmental education programs. Film, handouts, discussion, and hands-on pond sampling and microscopic investigation techniques are used.

Janet Kennedy, Outdoor Recreation Planner  
Great Meadows NWR  
Weir Hill Road  
Sudbury, MA 01776  
(508) 443-4661 / Fax: (508) 443-2898  
E-mail: r5rw\_gmnwr@mail.fws.gov

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### **Monomoy National Wildlife Refuge**

Cultural and Natural History Tours of South Monomoy Island operate through a cooperative agreement with the U.S. Fish and Wildlife Service and the Cape Cod Museum of Natural History. The program uses the historical Monomoy Lighthouse as a base of operations. Day and overnight trips are offered.

Internships in refuge management, wildlife management, biology, and public use management are available during the summer months. Undergraduate students and those planning to enter graduate school participate in field activities, working alongside refuge staff and independently. Internships are tailored to meet student and refuge needs. Generally, one or two internships are conducted each year.

Sharon Ware, Refuge Operations Specialist  
Monomoy NWR  
Wikis Way  
Chatham, MA 02633  
(508) 945-0594 / Fax: (508) 945-9559  
E-mail: r5rw\_mnwr@mail.fws.gov

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Marion Larson, Project WILD  
Co-Coordinator  
Division of Fisheries and Wildlife  
Route 135  
Westboro, MA 01581  
(508) 792-7270 / Fax: (508) 792-7275

Cleti Cervoni, Project WILD Co-Coordinator  
Massachusetts Audubon Society  
South Great Road  
Lincoln, MA 01773-1460  
(617) 259-9506, ext. 7252  
Fax: (617) 259-8899

### **Saugus Iron Works National Historic Site**

In the program A Colonial Iron Works, students are introduced to 17th-century iron-making. Students participate in a "hunt" to find the natural resources used in ironmaking. Then they are taken through the process and the end result, such as an iron tool or nail. Pre- and post-visit materials and resource boxes are available.

Frank M. Studinski, Chief  
Interpretation and Visitor Service  
Saugus Iron Works NHS  
244 Central Street  
Saugus, MA 01906  
(617) 233-0050 / Fax: (617) 231-9012

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Angelo Buonopane, Director  
Massachusetts Department of Labor and Workforce Development  
One Ashburton Place, Room 1402  
Boston, MA 02108  
(617) 727-6573 / Fax: (617) 727-1090

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

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► **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and cross-talk sessions to exchange ideas on promoting aerospace education.

Shelia Bauer, ANE-40  
FAA New England Region  
12 New England Executive Park  
Burlington, MA 01803  
(781) 238-7378 / Fax: (781) 238-7377

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Bill Annesley  
Aviation Education Resource Center  
Bridgewater State College  
Management Science and Aviation Science  
Department  
Bridgewater, MA 02325  
(508) 697-1395

Robert Finklestein  
Aviation Education Resource Center  
North Shore Community College  
One Ferncroft Road  
Danvers, MA 01923  
(508) 762-4000, ext. 6296

Nicholas Tzimopoulos, Director  
Aviation Education Resource Center  
Lexington Public School System  
Curriculum/Science Education  
1557 Massachusetts Avenue  
Lexington, MA 02173  
(617) 861-2484

Maureen McCartney, Director of Career Services  
Aviation Education Resource Center  
Westfield State College  
Ely Campus Center, Western Avenue  
Westfield, MA 01086  
(413) 568-3311, ext. 206

Toby Penstlen  
Aviation Education Resource Center  
Massachusetts Aeronautics Commission  
Transportation Library, 10 Park Plaza  
Boston, MA 02116-3966  
(617) 973-8000

### ► **Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Environmental Education Coordinator  
Environmental Protection Agency  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 1  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### ► **National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides,

audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

#### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Bridgewater State College  
Maxwell Library  
Bridgewater, MA 02325  
(508) 697-1248, ext. 2022

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Massachusetts Space Grant Consortium  
Massachusetts Institute of Technology  
Aeronautics and Astronautics  
77 Massachusetts Avenue  
Building 37, Room 207  
Cambridge, MA 02139  
(617) 253-7759

### ► **National Science Foundation (NSF)**

#### **Statewide Systemic Initiatives (SSI) Program**

The goals for the Massachusetts SSI Program include producing the state's first science and mathematics curriculum frameworks. Profes-

sional development opportunities are focused on reflective, inquiry-based teaching. Other initiatives include improving teacher preparation programs and establishing partnerships among schools, higher education institutions, businesses, parents, and the community.

Thomas Noonan  
Massachusetts Department of Education  
350 Main Street  
Malden, MA 02148-5023  
(617) 388-3300, ext. 297  
Fax: (617) 388-3395  
E-mail: tnoonan@doe.mass.edu

## New Hampshire

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Charlene Baxter, Program Leader  
4-H and Youth Development  
University of New Hampshire  
59 College Road, 119 Taylor Hall  
Durham, NH 03824  
(603) 862-2161 / Fax: (603) 862-1585  
E-mail: charlene.baxter@unh.edu

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Lynne Blye  
Department of Agriculture  
Caller Box 2042  
Concord, NH 03302  
(603) 271-3696 / Fax: (603) 271-1109

### ► Department of Commerce (DOC)

#### Great Bay National Estuarine Research Reserve

The reserve operates the Sandy Point Interpretive Center, which includes exhibits

describing the human and natural histories of the bay. Some programs are available for secondary students and teachers.

Education Coordinator  
Great Bay National Estuarine Research Reserve  
Sandy Point Discovery Center  
89 Depot Road  
Stratham, NH 03885  
(603) 778-0015 / Fax: (603) 778-7398

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Robert Kent  
New York Sea Grant  
Cornell University Laboratory  
3059 Sound Avenue  
Riverhead, NY 11901-1098  
(516) 727-3910 / Fax: (516) 727-3611

### ► Department of Defense (DoD)

#### U.S. Army Cold Regions Research and Engineering Laboratory

The laboratory manages an apprenticeship program for juniors in local high schools. The program's purpose is to encourage continuation in mathematics, science, and engineering.

Nicole Woodward  
Office of Human Resources  
Cold Regions Research and Engineering Laboratory  
72 Lyme Road  
Hanover, NH 03755-1290  
(603) 646-4131

### ► Department of Education (ED)

#### The Eisenhower Regional Alliance for Mathematics and Science Education Reform

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: alliance@terc.edu  
http://ra.terc.edu/

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Edward J. Hendry  
Eisenhower Professional Development Program  
New Hampshire Department of Education  
101 Pleasant Street  
Concord, NH 03301  
(603) 271-2632 / Fax: (603) 271-1953

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Edward J. Hendry  
Eisenhower Professional Development Program  
New Hampshire Department of Education  
101 Pleasant Street  
Concord, NH 03301  
(603) 271-2632 / Fax: (603) 271-1953

#### Northeast and Islands Regional Educational Laboratory at Brown University (LAB)

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
http://www.vlab.brown.edu/

#### Northeast Regional Technology in Education Consortium (NetTech)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational



institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribaud,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

### ► Department of the Interior (DOI)

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental  
Affairs  
Education Coordinator  
Minerals Management Service.  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical  
Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Judy Silverberg, Project WILD Coordinator  
New Hampshire Fish and Game Department  
Two Hazen Drive  
Concord, NH 03301  
(603) 271-3212 / Fax: (603) 271-1438

### ► Department of Labor (DOL)

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Ray O. Worden, Executive Director  
New Hampshire Job Training Coordinating  
Council  
64B Old Suncook Road  
Concord, NH 03301  
(603) 228-9500 / Fax: (603) 228-8557

### ► Department of Transportation (DOT)

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S.

territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Shelia Bauer, ANE-40  
FAA New England Region  
12 New England Executive Park  
Burlington, MA 01803  
(781) 238-7378 / Fax: (781) 238-7377

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Ronald Wanner  
Aviation Education Resource Center  
New Hampshire DOT Division of  
Aeronautics  
65 Airport Road, Concord Municipal Airport  
Concord, NH 03301-5298  
(603) 271-2551

Hanna McCarthy, President  
Aviation Education Resource Center  
Daniel Webster College  
20 University Drive  
Nashua, NH 03063-1699  
(603) 883-3556

### ► Environmental Protection Agency (EPA)

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers

and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Environmental Education Coordinator  
Environmental Protection Agency  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 1  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center

offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

New Hampshire Space Grant Consortium  
Institute for the Study of Earth, Oceans, and Space  
University of New Hampshire, Morse Hall  
Durham, NH 03824-3525  
(603) 862-0094

## **New York**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Ron Jones, State 4-H Program Leader  
4-H Youth Development, Cornell University  
Roberts Hall, Room 354  
Ithaca, NY 14853-4203  
(607) 255-2233 / Fax: (607) 255-0788  
E-mail: rjones@cce.cornell.edu

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Andrew Fagan  
Cornell University  
408 Kennedy Hall  
Ithaca, NY 14853-5901  
(607) 255-8122 / Fax: (607) 255-7905

### **► Department of Commerce (DOC)**

#### **Hudson River National Estuarine Research Reserve**

The reserve offers professional development workshops for educators and operates an Educational Resource Library. The reserve also has onsite and outreach interpretive programs.

Dennis Mildner, Education Coordinator  
Hudson River National Estuarine Research Reserve  
New York State Department of Environmental Conservation  
c/o Bard College Field Station  
Annandale-On-Hudson, NY 12504  
(914) 758-7012 / Fax: (914) 758-7033  
E-mail: dmildner@ocean.nos.noaa.gov

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Robert Kent  
New York Sea Grant  
Cornell University Laboratory  
3059 Sound Avenue  
Riverhead, NY 11901-1098  
(516) 727-3910 / Fax: (516) 727-3611

### **► Department of Education (ED)**

#### **The Eisenhower Regional Alliance for Mathematics and Science Education Reform**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: alliance@terc.edu  
http://ra.terc.edu/

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program

focuses on sustained and intensive high-quality professional development through inservice programs.

Laurie A. Rowe  
Eisenhower Professional Development  
Program  
New York Education Department  
Room 464 EBA  
Albany, NY 12234  
(518) 474-1280 / Fax: (518) 486-5295  
E-mail: lrowe@inet.ed.gov

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Yvonne Lovell  
Eisenhower Professional Development  
Program  
New York State Education Department  
Empire State Plaza  
Cultural Education Center, Room C  
Albany, NY 12230  
(518) 486-6042 / Fax: (518) 486-3239

### **Northeast and Islands Regional Educational Laboratory at Brown University (LAB)**

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

### **Northeast Regional Technology in Education Consortium (NetTech)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribauda,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov

### **► Department of Energy (DOE)**

#### **Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)**

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecom-

munications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

### **Brookhaven National Laboratory**

The laboratory provides teacher workshops, student and faculty research apprenticeships, outreach, and onsite programs.

Karl Swyler, Head  
Educational Programs  
Brookhaven National Laboratory  
14 Brookhaven Avenue, Building 438  
PO Box 5000  
Upton, NY 11973-5000  
(516) 344-7171 / Fax: (516) 344-5832  
E-mail: swyler@bnl.gov

### **► Department of the Interior (DOI)**

#### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

#### **Fire Island National Seashore**

Programs include guided nature walks, teacher workshops, and a Junior Ranger Program. A teacher guide that emphasizes the geology, history, ecology, and zoology of Fire Island is available.

Division of Interpretation  
Fire Island National Seashore  
120 Laurel Street  
Patchogue, NY 11772  
(516) 289-4810

#### **Gateway National Recreation Area**

Programs are intended primarily for grades 4-6, although they can be modified for other grade levels. All education visits require advance notification. The Ecology Village Camping Program allows students and teachers to explore the environment, sleep in tents, prepare meals outdoors, and practice teamwork at an Ecology Village campsite. Classes study science, nature, and history at the shore and in the uplands habitat. This program

requires completion of a teacher training program offered once a year.

Educational opportunities at Sandy Hook include programs in oceanography, geology, and the marine environment. These programs educate teachers, students, families, and other groups about the ocean and its resources. Teacher materials are available. The Breezy Point, Jamaica Bay, and Staten Island sites all offer varied opportunities for natural and technological science study. Habitats include marsh, uplands, and bay. In addition, the Breezy Point district contains barrier beach and dune habitat for exploration. Free teacher workshops may be required prior to class visits. A limited number of ranger-led programs are offered.

John Lancos, Education Specialist  
National Park Service  
Gateway National Recreation Area  
HQ, Floyd Bennett Field  
Brooklyn, NY 11234  
(718) 354-4560 / Fax: (718) 354-4567  
E-mail: john\_lancos@nps.gov

### **Iroquois National Wildlife Refuge**

Teacher workshops and guided tours are offered to promote environmental education. In the School Field Trip Program, teachers may schedule a one- or two-hour program during their visit, including: 1) an hour indoors with an orientation slide show or other AV program selected from the refuge library, and 2) an hour outdoors on an interpretive walk on a nature trail or visit to a wildlife overlook. Programs can be modified to coincide with specific classroom studies.

Project WILD and Project WET (Aquatic WILD) teacher workshops are supplementary environmental education programs emphasizing wildlife in learning design. Teachers and youth educators learn new teaching ideas for use in the classroom or in youth-oriented programs including scouts and recreation centers. Participants receive activity guides and other teaching materials that can be used to supplement the curriculum.

Two sessions of the State Waterfowl Identification class are conducted each fall. Slides, videotapes, and lectures help participants learn how to identify common waterfowl species. Hunter ethics, ballistics, and wildlife laws pertaining to hunting are also covered. Participants must pass a written test to receive a certification card.

Dorothy Gerhart, Outdoor Recreation Planner  
Iroquois NWR  
Casey Road, PO Box 517-1101  
Alabama, NY 14003  
(716) 948-5445 / Fax: (716) 948-9538  
E-mail: r5rw\_irqnwr@mail.fws.gov

### **Long Island National Wildlife Refuge**

Teacher workshops promote environmental education, curriculum materials, and various interpretation programs for students.

Outdoor Recreation Planner  
Long Island NWR Complex  
PO Box 21  
Shirley, NY 11967  
(516) 286-0485 / Fax: (516) 286-4003

### **Montezuma National Wildlife Refuge**

The refuge has a video library, environmental education activities, curriculum materials, and guided nature tours.

Outdoor Recreation Planner  
Montezuma NWR  
3395 Route 5/20 East  
Seneca Falls, NY 13148  
(315) 568-5987 / Fax: (315) 568-8835

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Frank Knight  
New York Department of Environmental Conservation  
50 Wolf Road, Room 504  
Albany, NY 12233  
(518) 457-3720 / Fax: (518) 547-0855

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

James T. Dillon, Acting Commissioner  
New York State Department of Labor  
State Office Building Campus  
Building 12, Room 500  
Albany, NY 12240  
(518) 457-2741 / Fax: (518) 457-6908

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services,

including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Mary Ann Poindexter, AEA-60  
John Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430  
(718) 553-3363 / Fax: (718) 995-5663

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Albert E. Donor, Provost and Executive Vice President  
Aviation Education Resource Center  
Dowling College  
Oakdale, NY 11769  
(516) 244-3200



## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Terry Ippolito, Environmental Education Coordinator  
Environmental Protection Agency  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3671 / Fax: (212) 637-4445

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 2  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3678 / Fax: (212) 637-4445

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
The City College  
Harris Hall, Room 109  
Convent Avenue at 138th Street  
New York, NY 10031  
(212) 650-6993

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

New York Space Grant Consortium  
Department of Astronomy  
Cornell University  
512 Space Sciences Building  
Ithaca, NY 14853-6801  
(607) 255-4935

## ► National Science Foundation (NSF)

### Statewide Systemic Initiatives (SSI) Program

The New York SSI Program's New Compact for Learning is a major reform in the state's six largest urban school districts: New York, Buffalo, Albany, Syracuse, Rochester, and Yonkers. Under this program, the districts

develop or expand local partnerships. The state provides support through state field-based assistance teams, staff development efforts, and a school quality review program.

Richard Jones  
New York State Board of Education  
Room 678 EBA Washington Avenue  
Albany, NY 12234  
(518) 473-9471 / Fax: (518) 473-0858  
E-mail: director@nyssi.org

### Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Elsie Chan  
New York City USI  
2 MetroTech Center, Suite 4800  
Brooklyn, NY 11201  
(718) 260-4966 / Fax: (718) 260-4967

## Puerto Rico

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Victor Rodriguez Vasquez, Acting State 4-H Leader  
Cooperative Extension Service  
College Station Building C  
Mayaguez, PR 00708  
(809) 832-4040 / Fax: (809) 865-3103

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Dave Heilig  
USDA/SCS  
Caribbean Area State Office  
GPO Box 4868  
San Juan, PR 00936  
(809) 498-5206

## ► Department of Commerce (DOC)

### Jobos Bay National Estuarine Research Reserve

The reserve offers interpretive exhibits, in-school presentations, and guided canoe trips. Reservations are required.

Clara Mojica, Education Coordinator  
Jobos Bay National Estuarine Research  
Reserve  
Call Box B  
Aguirre, PR 00704  
(787) 853-4617 / Fax: (787) 853-4618

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

## ► Department of Education (ED)

### The Eisenhower Regional Alliance for Mathematics and Science Education Reform

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics  
and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: alliance@terc.edu  
http://ra.terc.edu/

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Debra Ann Zumaeta  
Eisenhower Professional Development  
Program  
PO Box 190759  
San Juan, PR 00919-0759  
(787) 765-6952 / Fax: (787) 758-3062

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Marta Coll-Rivera  
Eisenhower Professional Development  
Program  
Puerto Rico Council of Higher Education  
PO Box 19900-1900  
San Juan, PR 00910  
(809) 724-7100, ext. 2056  
Fax: (809) 725-1275

### Northeast and Islands Regional Educational Laboratory at Brown University (LAB)

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
http://www.vlab.brown.edu/

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204  
E-mail: dholznag@serve.org  
http://www.serve.org/seir-tec/

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

## ► Department of the Interior (DOI)

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Aileen T. Velazco  
Department of Natural and Environmental  
Resources  
PO Box 5887  
Puerta de Tierra  
San Juan, PR 00906  
(809) 725-8619 / Fax: (809) 724-0365

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Cesar Juan Almodovar, Secretary of Labor  
and President  
Council for Occupational Development and  
Human Resources  
431 Ponce de Leon, 17th Floor  
Hato Rey, PR 00918  
(809) 754-5633 / Fax: (809) 763-0195

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Terry Ippolito, Environmental Education Coordinator  
Environmental Protection Agency  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3671 / Fax: (212) 637-4445

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 2  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3678 / Fax: (212) 637-4445

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Center  
NASA John F. Kennedy Space Center  
Mail Code ERC  
Kennedy Space Center, FL 32899  
(407) 867-4090

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Steve Dutczak, Chief  
Education Services Branch  
NASA John F. Kennedy Space Center  
Mail Code AB-C  
Kennedy Space Center, FL 32899-0001  
(407) 867-4444

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Puerto Rico Space Grant Consortium  
University of Puerto Rico  
Resource Center for Science and Engineering  
PO Box 5000, College Station  
Mayaguez, PR 00681-5000  
(787) 831-1022

## ► National Science Foundation (NSF)

### Statewide Systemic Initiatives (SSI) Program

Puerto Rico's SSI, a joint venture between the U.S. Department of Education, the Resource Center for Science and Engineering, and the Puerto Rico General Council of Education, focuses on students' cognitive abilities and depth of scientific understanding; revises teacher preparation; promotes community involvement; and develops new assessment methods.

Pablo Rivera  
University of Puerto Rico  
Resource Center for Science and Engineering  
PO Box 23334, University Station  
San Juan, PR 00931-3334  
(787) 764-7320 / Fax: (787) 756-7717

## Rhode Island

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

J. Whitney Bancroft, State 4-H Coordinator  
University of Rhode Island  
Rodman Hall  
Kingston, RI 02881-0804  
(401) 792-2435 / Fax: (401) 874-4395  
E-mail: jwbancr@uriacc.uri.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Carol Stamp  
1 Stamp Place  
South Country Trail  
Exeter, RI 02822  
(401) 783-7704

### ► Department of Commerce (DOC)

#### Narragansett Bay National Estuarine Research Reserve

Offsite estuarine education programs are conducted by naturalists at the reserve throughout the summer. Reservations are required. The reserve also offers on- and offsite exhibits about estuarine ecology and historical uses of the area.

Kim Botelho, Education Coordinator  
Narragansett Bay National Estuarine Research Reserve  
Department of Environmental Management  
55 South Reserve Drive  
Prudence Island, RI 02872  
(401) 683-6780 / Fax: (401) 682-1936

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Robert Kent  
New York Sea Grant  
Cornell University Laboratory  
3059 Sound Avenue  
Riverhead, NY 11901-1098  
(516) 727-3910 / Fax: (516) 727-3611

### ► Department of Defense (DoD)

#### Naval War College Museum

The museum features exhibits on the history of naval warfare and also identifies milestones in the evolution of war at sea, including technological advances.

Naval War College Museum  
686 Cushing Road  
Newport, RI 02841-1207  
(401) 841-4052

### ► Department of Education (ED)

#### The Eisenhower Regional Alliance for Mathematics and Science Education Reform

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: alliance@terc.edu  
<http://ra.terc.edu/>

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Richard Latham  
Eisenhower Professional Development Program  
Rhode Island Department of Education  
Shepherd Building  
255 Westminster Street, Room 600  
Providence, RI 02908  
(401) 277-3037, ext. 2371  
Fax: (401) 277-4979

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for High-

er Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Cynthia V. L. Ward  
Eisenhower Professional Development Program  
Rhode Island Office of Higher Education  
301 Promenade Street  
Providence, RI 02908  
(401) 277-6560, ext. 134  
Fax: (401) 277-6111

#### Northeast and Islands Regional Educational Laboratory at Brown University (LAB)

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

#### Northeast Regional Technology in Education Consortium (NetTech)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help States, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribauda,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: blbbh@cunyvm.cuny.edu  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: Kathy\_Fuller@ed.gov



► **Department of the Interior (DOI)**

**Bureau of Land Management  
Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

**Minerals Management Service  
(MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

**Ninigret National Wildlife Refuge**

The refuge offers a wildlife management and environmental education program for students of all ages. Outreach programs, teacher workshops, and field trips are also sponsored.

Outdoor Recreation Planner  
Shoreline Plaza, Route 1A  
PO Box 307  
Charlestown, RI 02813  
(401) 364-9124 / Fax: (401) 364-0170

**Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Chris Dudley, Project WILD Coordinator  
Rhode Island Division of Fish and Wildlife  
PO Box 218  
West Kingston, RI 02892  
(401) 789-0281 / Fax: (401) 783-7490

► **Department of Labor (DOL)**

**Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Lee Arnold, Director  
Department of Labor and Training  
101 Friendship Street  
Providence, RI 02903-3740  
(401) 277-3732 / Fax: (401) 277-1473

► **Department of Transportation (DOT)**

**Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

► **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

► **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

► **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Shelia Bauer, ANE-40  
FAA New England Region  
12 New England Executive Park  
Burlington, MA 01803  
(781) 238-7378 / Fax: (781) 238-7377

**FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Anthony Gagliardi  
Aviation Education Resource Center  
Warwick Public Schools  
Warwick Career and Technical School  
575 Centerville Road  
Warwick, RI 02886  
(401) 737-3300

► **Environmental Protection Agency (EPA)**

**Environmental Research Laboratory**

Students have the opportunity to interact directly with scientists at the laboratory through a mentorship program.

U.S. Environmental Protection Agency  
Environmental Research Laboratory  
South Ferry Road  
Narragansett, RI 02882  
(401) 782-3028

**EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Environmental Education Coordinator  
Environmental Protection Agency  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

**The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage

individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 1  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### ► National Aeronautics and Space Administration (NASA)

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

#### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as

RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Rhode Island College  
Henry Barnard School, RIC  
600 Mount Pleasant Avenue  
Providence, RI 02908  
(401) 456-8801

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Rhode Island Space Grant Consortium  
Department of Geological Sciences  
Brown University  
Box 1846  
Providence, RI 02912  
(401) 863-2417

## Vermont

### ► Department of Agriculture (USDA)

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Mary Carlson, 4-H Youth Development Specialist  
University of Vermont  
102B Morrill Hall  
Burlington, VT 05405  
(802) 656-0311 / Fax: (802) 656-1423  
E-mail: mcarlson@moose.uvm.edu

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Megan Camp  
Shelburne Farms  
Shelburne, VT 05482  
(802) 985-8686 / Fax: (802) 985-8498

Lindsey Kethcel  
Vermont Department of Agriculture  
116 State Street  
Drawer 20  
Montpelier, VT 05620-2901  
(802) 828-3833

### ► Department of Education (ED)

#### **The Eisenhower Regional Alliance for Mathematics and Science Education Reform**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: alliance@terc.edu  
<http://ra.terc.edu/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Lynn Provasi / Doug Walker  
Eisenhower Professional Development Coordinators  
Eisenhower Professional Development Program  
Vermont Department of Education  
120 State Street  
Montpelier, VT 05602  
(802) 828-3894 or 3893  
Fax: (802) 828-3140 or 3146

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Gregg Humphrey  
Eisenhower Professional Development Program  
Trinity College  
Colchester Avenue  
Burlington, VT 05401  
(802) 658-2889 / Fax: (802) 658-7435

## Northeast and Islands Regional Educational Laboratory at Brown University (LAB)

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

## Northeast Regional Technology in Education Consortium (NetTech)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Bonnie Brownstein and Michael Ribaud,  
Co-Directors, NetTech  
City University of New York  
555 West 57th Street  
New York, NY 10019  
(212) 541-0972 / Fax: (212) 541-0357  
E-mail: [blbbh@cunyvm.cuny.edu](mailto:blbbh@cunyvm.cuny.edu)  
<http://www.nettech.org/>

Kathy Fuller, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506g  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2281  
E-mail: [Kathy\\_Fuller@ed.gov](mailto:Kathy_Fuller@ed.gov)

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

## Lake Champlain Fish and Wildlife Resources Office

In the program Atlantic Salmon Restoration in the Connecticut River, students are given a slide show/discussion on the Atlantic salmon program and the biology of the Atlantic salmon. They also tour a salmon fish hatchery and assist by stocking Atlantic salmon in tributaries of the Connecticut River.

Carl F. Baren, Coordinator  
Lake Champlain Fish and Wildlife Resources Office  
11 Lincoln Street  
Essex Junction, VT 05452  
(802) 951-6313 / Fax: (802) 951-6315  
E-mail: [r5fa\\_lcfwro@5ha-main1](mailto:r5fa_lcfwro@5ha-main1)

## Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

## Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Mark Scott, Project WILD Coordinator  
Department of Fish and Wildlife  
103 South Main Street  
Waterbury, VT 05676  
(802) 241-3700 / Fax: (802) 241-3295

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Robert Ware, Director  
Job and Training Division  
Department of Employment and Training  
PO Box 488, 5 Green Mountain Drive  
Montpelier, VT 05601-0488  
(802) 828-4300 / Fax: (802) 828-4022

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Shelia Bauer, ANE-40  
FAA New England Region  
12 New England Executive Park  
Burlington, MA 01803  
(781) 238-7378 / Fax: (781) 238-7377

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of print-

ed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

John Barney, Vocational Director  
Aviation Education Resource Center  
St. Johnsbury Academy  
St. Johnsbury, VT 05816  
(802) 748-8171

Rick Sylvester, Aviation Instructor  
State of Vermont  
RM A-322 Burlington Technical Center  
52 Institute  
Burlington, VT 05401  
(802) 864-8424

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Environmental Education Coordinator  
Environmental Protection Agency  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 1  
JFK Federal Building (RPM)  
Boston, MA 02203  
(617) 565-9447 / Fax: (617) 565-3415

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Educator Resource Laboratory  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771  
(301) 286-8570

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Education Programs  
NASA Goddard Space Flight Center  
Mail Code 130.3  
Greenbelt, MD 20771-0001  
(301) 286-7206

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Norwich University  
Montpelier, VT 05602  
(802) 828-8845

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Vermont Space Grant Consortium  
University of Vermont  
Department of Mathematics and Statistics  
16 Colchester Avenue  
Burlington, VT 05405  
(802) 656-1936 or 656-8541

## ► National Science Foundation (NSF)

### Statewide Systemic Initiatives (SSI) Program

The major components of Vermont's SSI Program are the statewide curriculum framework; intensive development of the teaching staff; new performance assessments; and a statewide telecomputing network linking schools, business, and higher education.

Frank Watson  
VISMT  
PO Box 310  
Waterbury, VT 05677-0310  
(802) 244-8768 / Fax: (802) 244-1923  
E-mail: fwatson@zoo.uvm.edu

## Virgin Islands

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Zoraida Jacobs, Program Leader, 4-H  
University of the Virgin Islands  
Virgin Islands CES  
Rural Route 2, Box 10,000  
Kingshill, St. Croix, VI 00850  
(304) 692-4088 / Fax: (809) 692-4085  
E-mail: zoraida.jacobs@uvi.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.



Otis Hicks  
PO Box 804  
Christiansted, St. Croix, VI 00821-0804  
(809) 773-0758

Eric Bough  
Department of Economic Development and  
Agriculture  
St. Croix, VI 00850  
(809) 778-0991

## ► Department of Education (ED)

### The Eisenhower Regional Alliance for Mathematics and Science Education Reform

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Mark Kaufman, Director  
Bob McLaughlin, Co-Director  
Eisenhower Regional Alliance for Mathematics  
and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
(617) 547-0430 / Fax: (617) 349-3535  
E-mail: [alliance@terc.edu](mailto:alliance@terc.edu)  
<http://ra.terc.edu/>

### Northeast and Islands Regional Educational Laboratory at Brown University (LAB)

LAB identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Phil Zarlengo, Executive Director  
222 Richmond Street, Suite 300  
Providence, RI 02903-4226  
(401) 274-9548 / Fax: (401) 421-7650  
(800) 521-9550  
<http://www.vlab.brown.edu/>

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: [dholznag@serve.org](mailto:dholznag@serve.org)  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: [Deborah\\_Williams@ed.gov](mailto:Deborah_Williams@ed.gov)

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Carmelo Rivera, Commissioner  
Department of Labor  
2131 Hospital Street  
Christiansted, St. Croix, VI 00820  
(809) 773-1994 / Fax: (809) 773-0094

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Terry Ippolito, Environmental Education  
Coordinator  
Environmental Protection Agency  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3671 / Fax: (212) 637-4445

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional

office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 2  
290 Broadway, 26th Floor  
New York, NY 10007  
(212) 637-3678 / Fax: (212) 637-4445

## ► **National Aeronautics and Space Administration (NASA)**

### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA John F. Kennedy Space Center  
Educator Resource Center  
Mail Code ERC  
Kennedy Space Center, FL 32899-0001  
(407) 867-4090

### **NASA Field Centers**

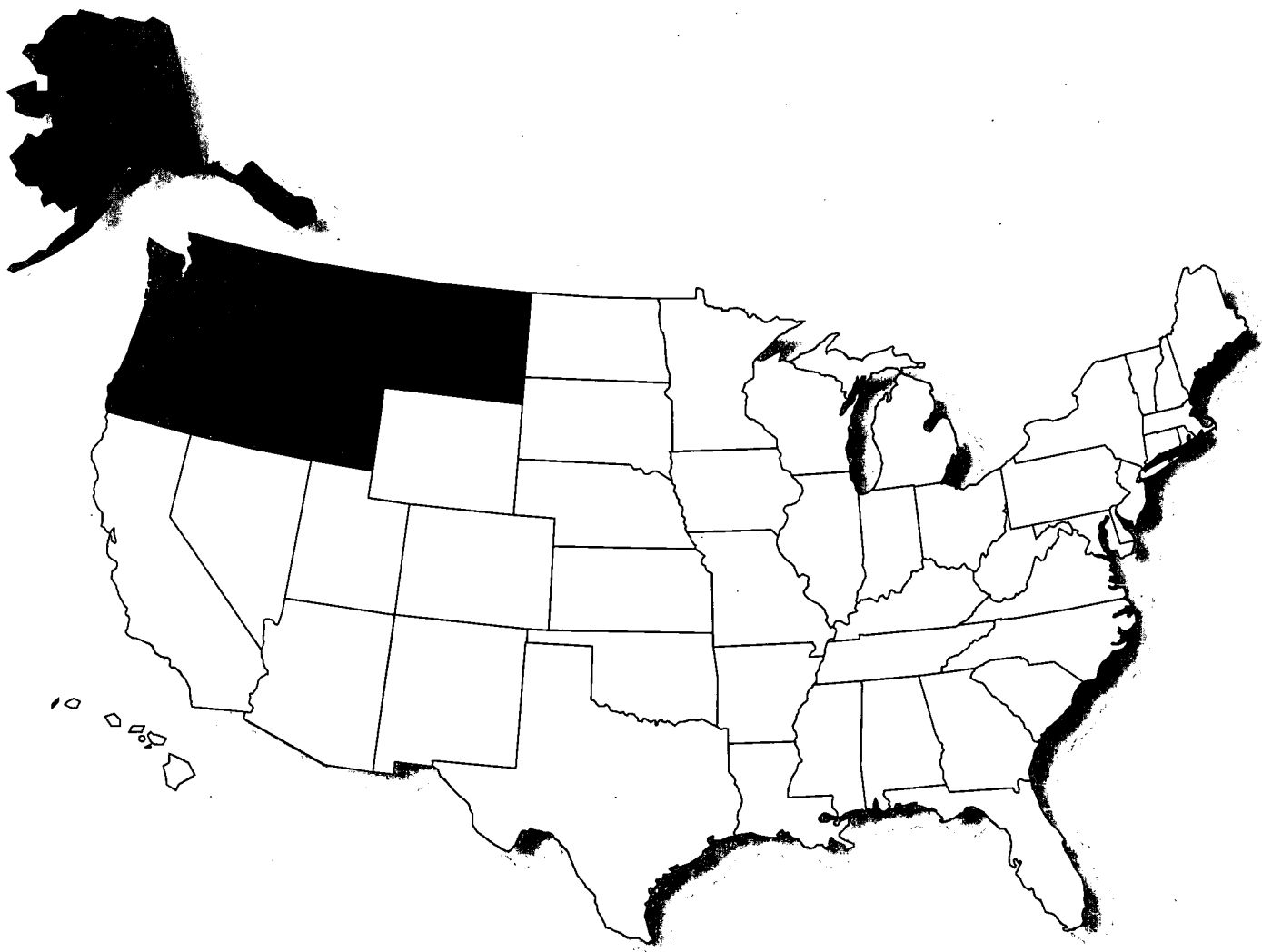
Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Steve Dutczak, Chief  
Education Services Branch  
NASA John F. Kennedy Space Center  
Mail Code AB-C  
Kennedy Space Center, FL 32899-0001  
(407) 867-4444

- ▶ Alaska
- ▶ Idaho
- ▶ Montana
- ▶ Oregon
- ▶ Washington

# Northwest Region

→ **Science and Mathematics Consortium  
for Northwest Schools**



**T**he Science and Mathematics Consortium for Northwest Schools (SMCNWS) project, conducted by The Columbia Education Center (CEC), serves schools and agencies in Alaska, Idaho, Montana, Oregon, and Washington. SMCNWS is one of 10 regional consortia across the country. The consortium is an integral part of a national effort to improve mathematics and science education led by the Eisenhower Federal Activities Program, administered by the Office of Educational Research and Improvement (OERI) of the U.S. Department of Education.

SMCNWS seeks to help improve mathematics and science education in the Northwest's K-12 schools by forming a consortium of education-related agencies and by providing catalytic support and assistance to the reform efforts of these agencies.

The consortium is not defined as those individuals employed by the project. It is better thought of as the sum total of the partnerships we create with other stakeholders in mathematics and science education in the region and nationally. These stakeholders represent a broad spectrum of those concerned with education: state departments of education, state math and science professional organizations, other education-related non-profit organizations, school districts, schools, teachers, corporate educational outreach departments, informal math and science agencies, and community members.

As part of this consortium, we rarely operate independently. Rather, almost every initiative we undertake is done in partnership with one or more consortium members, each bringing resources to accomplish purposes none could do as easily or effectively alone.

### Philosophy and Beliefs

SMCNWS believes that educational improvement begins in the classroom. Teachers are professionals; they want to learn and apply new teaching methods and approaches. Teachers recognize that continued professional development is a necessary—and a desirable—element of a successful teaching career. Given the opportunity and support, teachers will seek out such training and become enthusiastic agents of lasting change and improvement in classroom outcomes.

SMCNWS honors and respects teachers as the primary agents of educational improvement. It is the belief of SMCNWS that teachers are fully capable of determining appropriate professional development activities. Within the framework of the various national science and mathematics standards and each state's reform efforts, we believe that teams of teachers are the best "units of reform." Given the opportunity and access to appropriate technical assistance, teams of teachers can both design and implement sustained professional development programs that are congruent with district, state, and national reform efforts.

The SMCNWS philosophy is to empower teachers to undertake such initiatives. More than 20 percent of the annual budget is devoted to the direct support of teams of teachers who, with the support of district superintendents and the technical assistance of SMCNWS, propose, design, and implement staff development activities.

### Typical SMCNWS Project Activities

- ▶ Collecting, organizing, evaluating, and distributing lists of promising and exemplary science and math programs.
- ▶ Promoting the use of resources and expertise available at informal science and mathematics education providers by formal science and mathematics education agencies.
- ▶ Collecting and distributing free and inexpensive samples and materials available from developers of innovative science and math resources in the region and the nation.
- ▶ Collecting and distributing information about sources of outside funding available to schools involved in science and math education reform initiatives and helping teachers, administrators, and other educators access these funds by providing technical assistance in proposal development.
- ▶ Providing technical assistance in planning, conducting, and evaluating local staff development activities related to emerging priorities and needs in science and mathematics education. (On some limited occasions, SMCNWS will provide partial, leveraged financial support for high-priority staff development activities linked to system-wide reform plans.)
- ▶ Assisting in identifying and obtaining the services of qualified personnel to help local and state agencies and organizations address emerging priorities in science and mathematics education.
- ▶ Assisting regional institutions and agencies in publicizing and recruiting participants for their staff development activities.
- ▶ Providing opportunities for state and local educators to participate in awareness programs that introduce exemplary national programs such as Project 2061, Equity 2000, and the Eisenhower National Clearinghouse.
- ▶ Planning and conducting institutes, workshops, and seminars to prepare cadres of teachers for leadership roles in local and state staff development activities related to topics such as educational equity, technology in the classroom, frameworks and standards, and assessment.
- ▶ Expanding the regional capacity to use the resources and services of the Eisenhower National Clearinghouse for Mathematics and Science Education by establishing multiple ENC Access Centers at sites throughout the Northwest.
- ▶ Assisting educators to respond to the information and implications of the Third International Math and Science Study (TIMSS).
- ▶ Maintaining an Internet presence through a World Wide Web site, <http://www.col-ed.org/smcnws/>, that includes information about all SMCNWS project activities and ensures access to project resources and services.

The essential consideration facing SMCNWS is how to help the communities, schools, and personnel that are ultimately responsible for bringing about systemic reform in science and mathematics education.



## Alaska

The regional approach must be coordinated. While SMCNWS cannot do it all, it can serve as a catalyst in identifying resources and assisting with the organization of a joint effort. The guiding principle of SMCNWS is to support regionally agreed upon goals and objectives in concert with all stakeholders.

**Ralph T. Nelsen**  
*Director*

**Rob Kremer**  
*Administrative Coordinator*

**Chris Martinsen**  
*Technology Coordinator*

**Stephanie Hoag**  
*Alaska Coordinator*

**Susan Harrington**  
*Idaho Coordinator*

**Patricia Johnson**  
*Montana Coordinator*

**Joy Wallace**  
*Oregon Coordinator*

**Andrea Anderson**  
*Washington Co-Coordinator*

**Richard Mariotti**  
*Washington Co-Coordinator*

**John Nelsen**  
*CEC Associate*

**Joy Wallace**  
*CEC Associate*

**Kam McCowan**  
*ENC Demo Site Coordinator*

Science and Mathematics Consortium  
for Northwest Schools (SMCNWS)  
Columbia Education Center  
171 NE 102nd Avenue  
Portland, OR 97220-4169  
(503) 252-4999 / Fax: (503) 252-4866  
<http://www.col-ed.org/smcnws/>

Jean Marcey, 4-H State Program Leader  
University of Alaska-Anchorage  
2221 East Northern Lights Boulevard  
Suite 118  
Anchorage, AK 99508  
(907) 279-5582 / Fax: (907) 279-2139  
E-mail: [ffjlm1@uaf.edu](mailto:ffjlm1@uaf.edu)

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Ted Berry  
University of Alaska  
PO Box 62  
Willow, AK 99688-0062  
(907) 495-1018 / Fax: (907) 495-1264

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Michael Spranger  
Washington Sea Grant  
University of Washington, HG-3  
3716 Brooklyn Avenue NE  
Seattle, WA 98105-6716  
(206) 685-9261 / Fax: (206) 685-0380

### ► Department of Education (ED)

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Nanci Spear  
Eisenhower Professional Development Program  
Alaska Department of Education  
801 West 10th Street, Suite 200  
Juneau, AK 99801-1894  
(907) 465-8718 / Fax: (907) 465-3396

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Nanci Spear  
Eisenhower Professional Development Program  
Alaska Department of Education  
801 West 10th Street, Suite 200  
Juneau, AK 99801-1894  
(907) 465-8718 / Fax: (907) 465-3396

#### Northwest Educational Technology Consortium (NETC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. R\*TEC program strategies include professional development, technical assistance, and information dissemination.

Seymour Hanfling, Director, NETC  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3297  
(503) 275-9500, ext. 658 / Fax: (503) 275-0449  
(800) 211-9435 (Helpline)  
E-mail: [hanflins@nwrel.org](mailto:hanflins@nwrel.org)  
<http://www.netc.org/>

Gerald Malitz, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
NCES, Room 410c  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
(202) 219-1364  
E-mail: [gerald\\_malitz@ed.gov](mailto:gerald_malitz@ed.gov)

#### Northwest Regional Educational Laboratory (NWREL)

NWREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Ethel Simon-McWilliams, Executive Director  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3212  
(503) 275-9500 / Fax: (503) 275-9489  
(800) 547-6339  
<http://www.nwrel.org/>

## Alaska

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

## Science and Mathematics Consortium for Northwest Schools

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Ralph T. Nelsen, Director  
Science and Mathematics Consortium  
for Northwest Schools (SMCNWS)  
Columbia Education Center  
171 NE 102nd Avenue  
Portland, OR 97220-4169  
(503) 760-2346 / Fax: (503) 760-5592  
E-mail: 76106.3006@compuserve.com  
http://www.col-ed.org/smcnws/

## ► Department of the Interior (DOI)

### Alaska Maritime National Wildlife Refuge

Pribilof Stewardship Camp is a summer nature camp for children, mainly Aleuts, of the Pribilof Islands. Day and overnight activities are designed to teach children about the natural and human history of their island. The goal is to combine traditional Aleut knowledge with western science.

In the Shorebird Sister Schools Project, schools along the Pacific flyway from southern California to Nome, Alaska, are linked via the Internet to study the shorebird migration every April and May. Participant schools are selected from key migration stopover areas. Curriculum, flyway maps, and local experts are supplied. A field trip is required.

Poppy Benson, Outdoor Recreation Planner  
Alaska Maritime NWR  
2355 Kachemak Bay Drive, Suite 101  
Homer, AK 99603  
(907) 235-6546 / Fax: (907) 235-7783

### Anchorage, Alaska, Public Lands Information Center

In addition to educational programs on the cultural and natural histories of Alaska, the center loans educational materials to teachers.

Anchorage, Alaska, Public Lands Information Center  
605 West Fourth Avenue  
Anchorage, AK 99501  
(907) 271-2737

### Bureau of Land Management Anchorage District Office

Programs include the following:

- **Alaska Outdoor Week** involves individuals from many different agencies and groups to present lessons to students on

outdoor skills and environmental and natural resource education. Students receive five lessons during a one-day visit.

- **Campbell Creek Science Center** was built to provide outdoor learning experiences, promote land stewardship, and function as a regional resource for environmental education. School groups, scout groups, and other civic groups may reserve the center for environmental education purposes. Participants can explore the rippling creeks and quiet forests of Campbell Tract, discover the area's wildlife and wildflowers, and understand the role people play in the local and global environment. The center features a 10,500-square-foot central building with kitchen, dining room, greenhouse, interpretive displays, and living stream aquarium.
- **Campbell Tract Biological Inventories** rely on community volunteers to perform a variety of inventories (such as plant surveys, breeding bird surveys, insect inventories, mushroom inventories, and lichen studies) to learn what lives on Campbell Tract, Anchorage's back yard wildland.
- **Campbell Tract Field Trips** give teachers from local schools the chance to visit BLM-managed land near their district office. An education specialist works with teachers to design field trips that meet specific learning objectives for students. On field trip days, the education specialist and, in some cases, other resource specialists make presentations to students. All activities are hands-on.
- **Earth Ranger Academy** is an intensive three-day program to teach children ecological concepts, how those concepts relate to their daily lives, and how they can help conserve natural resources by modifying their use of resources.
- **Limits of Acceptable Change Monitoring Program** employs community volunteers to conduct visitor surveys and monitor trails and natural resources to maintain health of BLM's Campbell Tract and Urban Wildland.
- **Resource Apprenticeship Program for Students (RAPS)** offers rural native students an opportunity to explore natural resource management careers and learn about the professional work environment by placing them in summer apprenticeships. Alongside specialists in over 10 state and federal agencies, students work on an educational handbook, and have the opportunity to attend the Alaska Inter-Tribal Youth Practicum.
- **Resource Specialist Extension Program** makes district office specialists available to visit school classrooms on an on-call basis. Resource specialists work with teachers and make presentations.

For information on these programs, contact Jeff Brune and Van Waggoner, Education Specialists; Janelle Eklund, Outdoor Recreation Planner; or Carrie Agibinik and Mike Johnson, RAPS Coordinators, at

Campbell Creek Science Center  
Bureau of Land Management  
Anchorage Field Office  
6881 Abbott Loop Road  
Anchorage, AK 99507-2599  
(907) 267-1251 / Fax: (907) 267-1267

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Robert H. Jones  
Bureau of Land Management  
222 West Seventh Avenue, #13  
Anchorage, AK 99513-7599  
(907) 271-3404

### Earth Science Information Center, Anchorage

The center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
Anchorage Earth Science Information Center  
4230 University Drive, Room 101  
Anchorage, AK 99508-4664  
(907) 786-7011 / Fax: (907) 786-7050  
(800) USA-MAPS  
E-mail: gfdurocher@usgs.gov

### Fairbanks, Alaska, Public Lands Information Center

In addition to educational programs on the cultural and natural histories of Alaska, the center loans educational materials to teachers.

Fairbanks, Alaska, Public Lands Information Center  
250 Cushman Street, Suite 1A  
Fairbanks, AK 99701  
(907) 451-7352

### Fairbanks Fishery

In the Integrated Fisheries Education program, education teams developed in each community (Dillingham, Galena) plan teachers' inservice training, workshops, and an in-depth outdoor studies program for K-12 students. The study is based on Alaska's fisheries and aquatic systems. The Adopt-A-Stream Program lets students "adopt" a local aquatic system for long-term monitoring of water quality, physical changes, and biological change. This is augmented in the classroom through use of a cold-water aquarium to house native fish for study. Students will also network, via the Internet, with other water quality monitoring programs throughout the country. Salmonids in the Classroom develops

an appreciation of Alaska's native fisheries by allowing classrooms to hatch salmon eggs and track their development. A curriculum introduces aspects of salmon biology, life cycles, and conservation.

Laurel Devaney, Education Coordinator  
Fairbanks Fishery Resource Office  
101 12th Avenue, Box 17, Room 222  
Fairbanks, AK 99707  
(907) 456-0558 / Fax: (907) 456-0454

### Glacier Bay National Park

In addition to guided tours, park rangers conduct in-school presentations.

Glacier Bay National Park  
PO Box 140  
Gustavus, AK 99826  
(907) 697-2230

### Innoko National Wildlife Refuge

In the Environmental Education Science Camp, high school students from the Iditarod area spend 15 days working and attending classes at the refuge's remote field camp.

Beverly Skinner, Refuge Operations Specialist  
Innoko NWR, Box 69  
McGrath, AK 99627  
(907) 524-3251 / Fax: (907) 524-3141

### Kanuti National Wildlife Refuge

Earth Quest (Northern Alaska Wildlife and Wildlands Education Camp) is sponsored by a partnership of local, state, federal, and native organizations. The camp is designed to give rural Alaskan high school students a hands-on approach to methods used by natural resource professionals in the field. It brings students and professionals together in an isolated setting for 10 days.

Barry Whitehill, Refuge Operations Specialist  
Kanuti NWR  
101 12th Avenue, Room 112  
Fairbanks, AK 99701  
(907) 456-0330 / Fax: (907) 456-0506

### Kenai Fjords National Park

Interpretive programs educate the public about glaciology, geology, flora, fauna, and the ocean/fjord environment, as well as resource management/protection values. The National Parks as Classrooms program offers environmental education across many disciplines to students from preschool through college, adapting the curriculum to the needs of classes involved. The program also offers a variety of adult education workshops.

Amy Ireland, Chief of Interpretation and Education  
Kenai Fjords National Park  
PO Box 1727  
Seward, AK 99664  
(907) 224-3175 / Fax: (907) 2242144  
E-mail: Interpretation\_KEFJ@nps.gov

### Kenai National Wildlife Refuge

The Environmental Education Program provides teacher/youth leader workshops and credit courses. Adult leaders are trained in curricula that reflect refuge-related resource issues and subject areas important to the school district and to youth organizations such as scouts, 4-H, and others. For preschool to first grade, thematic units include animals and their senses; for second and third grade, the theme is the role of predators in the ecosystem. Fourth through sixth graders study wetlands and wildlife, and sixth through eighth graders learn about the role of fire in the ecosystem.

Candace D. Ward, Park Ranger  
Kenai NWR  
PO Box 2139  
Soldotna, AK 99669  
(907) 262-7021 / Fax: (907) 262-3599

### Koyukuk/Nowitna National Wildlife Refuge

In Biological Skills Camp, participants learn about fish and wildlife management and the role of the National Wildlife Refuge System in resource conservation. Participants also develop skills needed to help them qualify for a biological technician position with the service.

Heather Johnson, Park Ranger  
Koyukuk/Nowitna NWR  
PO Box 287  
Galena, AK 99741  
(907) 656-1231 / Fax: (907) 656-1708

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Alaska Outer Continental Shelf Region  
Minerals Management Service  
Office of Public Affairs  
949 East 36th Avenue, #110, MS 8000  
Anchorage, AK 99508-4302  
(907) 271-6070 / Fax: (907) 271-6805

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Colleen Matt, Project WILD Coordinator  
Alaska Department of Fish and Game  
333 Raspberry Road  
Anchorage, AK 99518-1599  
(907) 267-2241 / Fax: (907) 344-7914

### Tetlin National Wildlife Refuge

Refuge teacher workshops promote education in wildlife management and environmental issues. Curriculum materials and programs for students are also available. National Wildlife Week, sponsored by the National Wildlife Federation, is a week-long event celebrated each spring. Each year a different theme is covered and includes wildlife, wildlife habitat, and environmental "happenings"—such as pollution—that affect all of us. The Summer Nature Camp is a series of day camps where students are taught about wildlife, wildlife habitat, natural fire effects and benefits for wildlife, and outdoor skills and care. Camps are held in local communities and on refuge lands; all include outdoor, hands-on educational activities.

Dave Dapkus, Supervisory Park Ranger  
Tetlin NWR  
PO Box 779  
Tok, AK 99780  
(907) 883-5312 / Fax: (907) 883-5747

### U.S. Fish and Wildlife Service (USFWS)

Programs include the following:

- **Goose Calendar Contest** invites local school children to participate in an art and literature competition. Five refuges in western and northern Alaska sponsor the contest, which highlights four species of arctic nesting geese whose populations have decreased. The winners have their work published in a color calendar that is distributed to communities in western and northern Alaska for free.
- **Learn About Seabirds** is a curriculum developed to teach students in grades 4-6 throughout Alaska about seabird biology and what can be done to help seabirds. The curriculum includes a slide set, poster, and two booklets. The USFWS offers teacher workshops and credit courses.
- **Role of Fire in Alaska** consists of a K-12 curriculum, poster, video, slide show, display, and education kit. USFWS employees train educators in the use of these materials through university credit courses and shorter workshops.
- **Wetlands and Wildlife and Teach About Geese** are two K-12 curricula. Materials include a poster, slide show, display, and education kit. USFWS employees train educators in the use of these materials through university credit courses, as well as shorter workshops. These two curricula are presented together.

Catherine Rezabeck, Education Specialist  
USFWS  
Region 7  
1011 East Tudor Road  
Anchorage, AK 99503  
(907) 786-3351 / Fax: (907) 786-3635

### **Water Conservation Center**

The center sponsors a Water Education Calendar and Poster Contest that results in a regional calendar produced in cooperation with the International Office of Water Education and Utah State University. The calendar highlights winners of state poster contests that emphasize water resource issues. The calendar is published and distributed to all elementary schools throughout Idaho, Washington, Oregon, Montana, Alaska, and Hawaii.

Debbie Cross, Public Affairs Officer  
Water Conservation Center  
PN-6430  
North Curtis Road  
Boise, ID 83705  
(208) 378-5020 / Fax: (208) 378-5066

### **Yukon Delta National Wildlife Refuge**

Refuge teacher workshops promote education in wildlife management and environmental issues. College credit for these workshops is available. Yukon Delta also hosts an extensive video library. Western Alaska Natural Science Camp introduces native Alaskan students to scientific and traditional concepts of ecosystem management and biodiversity. Wildlife education and recreation activities promote environmental education. The activities also compare and contrast traditional native ecological knowledge about natural resources with scientific approaches to resource management.

Lorrie Beck, Outdoor Recreation Planner  
Yukon Delta NWR  
PO Box 346  
Bethel, AK 99559  
(907) 543-3151 / Fax: (907) 543-4413

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Yvonne Chase, Director  
Department of Community and  
Rural Development  
Alaska Department of Community and  
Regional Affairs  
333 West Fourth Avenue, Suite 220  
Anchorage, AK 99501-2341  
(907) 269-4607 / Fax: (907) 269-4520

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Boots Fluharty, AAL-4E  
FAA Alaskan Region  
222 West Seventh Avenue, #14  
Anchorage, AK 99513-7587  
(907) 271-5293 / Fax: (907) 271-4415

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers

maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Dennis Stephens, Collection Development Officer  
Aviation Education Resource Center  
University of Alaska, Fairbanks  
Elmer E. Rasmuson Library  
Fairbanks, AK 99775-1006  
(907) 474-6695

Barbara Sokolov, Library Director  
Aviation Education Resource Center  
University of Alaska, Anchorage  
3211 Providence Drive  
Anchorage, AK 99508  
(907) 786-1825

Rusty Myers, Project Director  
Aviation Education Resource Center  
Alaska Pacific University  
4101 University  
Anchorage, AK 99508  
(907) 564-8207

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office sponsors innovative education projects, provides technical information and assistance, works with state organizations to further environmental education efforts, and coordinates the educational grant program for the region. Free copies of publications, posters, and teacher packets are available, and videos are provided for loan. The office also offers the services of an environmental education clearinghouse that connects those who provide educational resources with classroom teachers and informal educators.

Sally Hanft, Environmental Education Coordinator  
Environmental Protection Agency  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the



President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 10  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 563-4315

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other non-profit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Alaska Science Center  
NASA Regional Educator Resource Center  
Alaska Pacific University  
4101 University Drive  
Anchorage, AK 99508  
(907) 564-8207

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Alaska Space Grant Consortium  
University of Alaska, Fairbanks  
223 Duckering Building  
Fairbanks, AK 99775-5900  
(907) 474-5206

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation. It also encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Ray Barnhardt  
Alaska Federation of Natives/Center for Cross-cultural Studies  
University of Alaska-Fairbanks  
Fairbanks, AK 99775-6480  
(907) 474-6431 / Fax: (907) 474-1957  
E-mail: ffrjb@uaf.alaska.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Rick Watley, Director  
Watley Associates  
1741 Gibson Way  
Meridian, ID 83642  
(208) 888-0988

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Michael Murphy  
Eisenhower Professional Development Program  
Idaho Department of Education  
Len B. Jordan Office Building  
Boise, ID 83720-0027  
(208) 332-6931 / Fax: (208) 334-4664

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

La Ron Smith and Michael Murphy  
Eisenhower Professional Development Program  
Idaho Department of Education  
Len B. Jordan Office Building  
Boise, ID 83720  
(208) 334-2281 / Fax: (208) 334-2228

### Northwest Educational Technology Consortium (NETC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

# Idaho

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Arlinda K. Nauman, State 4-H Director  
Morrill Hall, #103  
University of Idaho  
Moscow, ID 83844-3015  
(208) 885-6321 / Fax: (208) 885-6198  
E-mail: fourh@idaho.edu

Seymour Hanfling, Director, NETC  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3297  
(503) 275-9500, ext. 658 / Fax: (503) 275-0449  
(800) 211-9435 (Helpline)  
E-mail: hanflins@nwrel.org  
http://www.netc.org/

Gerald Malitz, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
NCES, Room 410c  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
(202) 219-1364  
E-mail: gerald\_malitz@ed.gov

### **Northwest Regional Educational Laboratory (NWREL)**

NWREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Ethel Simon-McWilliams, Executive Director  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3212  
(503) 275-9500 / Fax: (503) 275-9489  
(800) 547-6339  
http://www.nwrel.org/

### **Science and Mathematics Consortium for Northwest Schools**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Ralph T. Nelsen, Director  
Science and Mathematics Consortium  
for Northwest Schools (SMCNWS)  
Columbia Education Center  
171 NE 102nd Avenue  
Portland, OR 97220-4169  
(503) 760-2346 / Fax: (503) 760-5592  
E-mail: 76106.3006@compuserve.com  
http://www.col-ed.org/smcnws/

### **► Department of Energy (DOE)**

#### **Bonneville Power Administration**

This office participates in a broad range of educational programs for teachers and students in its Pacific Northwest (PNW) service territory. Printed educational materials focus on watershed and habitat, environmental consequences of resource choices, basic electricity, energy efficiency, and safety. Videos are available on a wide range of subjects related to the federal hydropower system in the PNW. The agency

partners with customers and other entities for its educational outreach efforts. Curricula available for hands-on math and science activities include Science Outreach Learning through Discovery (S.O.L.D.) modules, the three-part Hydromania Summer Science Camp series, and Kids in the Creek. Many administration employees volunteer for classroom presentations or other educational activities. The administration also donates computers to schools in its service territory.

George E. Eskridge, Senior Community  
Relations Coordinator  
Bonneville Power Administration  
3350 Americana Terrace, Suite 360  
Boise, ID 83706-2502  
(208) 334-9137 / Fax: (208) 334-9388  
E-mail: geeskridge@bpa.gov

### **Idaho National Engineering and Environmental Laboratory**

The laboratory offers programs and research experiences for educators and students in science, mathematics, engineering, and technology. Programs are coordinated with universities and state departments of education.

Connie J. Blackwood  
Idaho National Engineering and  
Environmental Laboratory  
PO Box 1625, MS 2437  
Idaho Falls, ID 83415  
(208) 526-1415 / Fax: (208) 526-1880  
http://www.inel.gov/academic/

### **► Department of the Interior (DOI)**

#### **Boise Interagency Fire Center**

The center provides information about educational programs, materials, and local land-management issues.

Pat Durland, Education Coordinator  
Boise Interagency Fire Center  
3905 Vista Avenue  
Boise, ID 83705  
(208) 387-5498 / Fax: (208) 387-5797

#### **Bureau of Land Management State Office**

This office offers various environmental education and land-management programs, such as the Nose to Nose Program. Information about educational programs, materials, and local land-management issues is also available.

Shelley Davis-Brunner, Education  
Coordinator  
Bureau of Land Management  
1387 South Vinnell Way  
Boise, ID 83709  
(208) 373-4020 / Fax: (208) 373-4019

### **Bureau of Reclamation Environmental Education**

A variety of environmental programs, with an emphasis on water resources, is offered to teachers and students in grades K-12. Subjects vary from a groundwater model to instant snow storms and wetlands in a pan. Programs are presented in the classroom as well as outdoors at laboratory schools, summer camps, and some visitor centers. The programs currently operate in the states of California, Colorado, Montana, Nevada, Idaho, and Utah.

Theresa Taylor, Environmental Education  
Program Assistant  
Denver Federal Center, D-5100, Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 262 / Fax: (303) 236-3573

### **Craters of the Moon National Monument**

The monument offers guided walks and teacher guides that focus on area geology. In the Education Outreach Program, staff provide two curricula for teachers planning trips to the monument, one for grades 5-6 and the other for high school students. The curricula contain information on monument resources and activities to be completed onsite and in the classroom. Also available upon request are trunks of support materials (videos, slides, books, maps, and rock samples).

David Clark, Chief of Interpretation  
Craters of the Moon National Monument  
PO Box 29  
Arco, ID 83213  
(208) 527-3257 / Fax: (208) 527-3073

### **Deer Flat National Wildlife Refuge**

An interpretation center displays exhibits and information about wildlife management. Guided walks and lectures are available. The refuge also participates in Project WILD for Teachers, which offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

L.T. McGowan, Outdoor Recreation Planner  
Deer Flat NWR  
13751 Upper Embankment Road  
Nampa, ID 83686  
(208) 467-9278 / Fax: (208) 467-1019

### **Eastern Idaho Visitor Information Center (EIVIC)**

The staff at EIVIC provide environmental outreach education in classrooms, on field trips, and at the visitor center for youth and adults. EIVIC participates in Career Days at local junior and senior high schools and colleges and gives presentations on recreational, environmental, or resource topics to local community groups. Staff help teachers and school districts plan resource-related lessons. The center facili-

tates six Project Learning Tree Workshops for adults per school year.

Denise Kilkenny-Tittle, Information Assistant  
BLM, Idaho Falls District  
Eastern Idaho Visitor Center  
505 Lindsay Boulevard  
PO Box 50498  
Idaho Falls, ID 83405  
(208) 523-1012 / Fax: (208) 523-2255  
E-mail: dkilkenn@id.blm.gov

### Hagerman Fossil Beds National Monument

The monument provides a teacher curriculum package and a traveling trunk of support materials for teachers of grades 4-6 and 7-9. Students learn about the sciences of geology, paleontology, and archaeology, as well as the history of the Oregon Trail. Teachers may take a college-level course for university credit to learn how to use the curriculum and the monument's resources. Guided tours are scheduled during the summer months, and a small visitor center with exhibits and audiovisual programs is available throughout the year.

James Ward, Park Ranger  
Hagerman Fossil Beds National Monument  
221 North State Street  
PO Box 570  
Hagerman, ID 83332  
(208) 837-4793 / Fax: (208) 837-4857

### Project Water Education for Teachers (WET)

Project WET is an interdisciplinary water education program intended to supplement a school's existing curriculum. The following classroom-ready teaching aids are being developed: activity guides and modules for grades K-12, computer simulations, water-history publications, groundwater flow models, and a series of children's story and action books.

Debbie Cross, Public Affairs Officer  
Water Conservation Center  
PN-6430  
North Curtis Road  
Boise, ID 83705  
(208) 378-5020 / Fax: (208) 378-5066

Dorothea Kunz Shuman, Project WET  
Coordinator  
IWRRI, 106 Morrill Hall  
University of Idaho  
Moscow, ID 83843  
(208) 885-6429

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

John Gahl, Project WILD Coordinator  
Idaho Fish and Game Department  
PO Box 25  
Boise, ID 83707  
(208) 334-2633 / Fax: (208) 334-2148  
(800) 422-9453

### Shoshone Resource Area

The Bat and Cave Resources Education program educates students about the bat's natural history, and habitat, as well as threats to species survival both locally and worldwide. Local cave formation processes, cave resources, and threats to cave resources are also covered.

Paula Call, Outdoor Recreation Planner  
Shoshone Resource Area  
400 West F Street  
Shoshone, ID 83352  
(208) 886-7254 / Fax: (208) 886-7317  
E-mail: pperlett@id.blm.gov

### Snake River Birds of Prey National Conservation Area

Each spring, the Bureau of Land Management hosts Environmental Education Days for area fourth, fifth, and sixth grade classes. Participants learn about the various wildlife found in the desert and the ecology of Idaho's high desert. Other topics include the relationship between predators, prey, and habitat; the role of fire in the National Conservation Area (NCA); and how humans have affected the NCA. Students see birds of prey up close and may handle various reptiles.

Larry Ridenhour, Park Ranger  
BLM, Snake River Birds of Prey NCA  
3948 Development Avenue  
Boise, ID 83705  
(208) 384-3300 / Fax: (208) 384-3326  
E-mail: lridenho@id.blm.gov

### Water Conservation Center

The center sponsors a Water Education Calendar and Poster Contest that results in a regional calendar produced in cooperation with the International Office of Water Education and Utah State University. The calendar highlights winners of state poster contests that emphasize water resource issues. It is published and distributed to all elementary schools throughout Idaho, Washington, Oregon, Montana, Alaska, and Hawaii.

Debbie Cross, Public Affairs Officer  
Water Conservation Center  
PN-6430  
North Curtis Road  
Boise, ID 83705  
(208) 378-5020 / Fax: (208) 378-5066

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Connie Ryals, Director  
Idaho Department of Employment  
317 Main Street  
Boise, ID 83735-0001  
(208) 334-6110 / Fax: (208) 334-6430

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

## FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

John Maakestad, Safety/Information Officer,  
Chief Pilot

Aviation Education Resource Center  
Idaho State Bureau of Aeronautics  
3483 Rickenbacker Street  
Boise, ID 83705-5018  
(208) 334-8775

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office sponsors innovative education projects, provides technical information and assistance, works with state organizations to further environmental education efforts, and coordinates the educational grant program for the region: Free copies of publications, posters, and teacher packets are available, and videos are provided for loan. The office also offers the services of an environmental education clearinghouse that connects those who provide educational resources with classroom teachers and informal educators.

Sally Hanft, Environmental Education  
Coordinator  
Environmental Protection Agency  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional

office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 10  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
College of Education  
University of Idaho  
Moscow, ID 83843  
(208) 885-6030

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in

implementing a balanced program of research, education, and public service.

Idaho Space Grant Consortium  
College of Education  
University of Idaho  
Moscow, ID 83844-3080  
(208) 885-6786

# Montana

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Elizabeth McCoy, 4-H Program Leader  
Taylor Hall  
Montana State University  
Bozeman, MT 59717  
(406) 994-3501 / Fax: (406) 994-5417

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Margie Thompson  
Agriculture in Montana Schools  
7950 Birdtrail Road  
Wolfe Creek, MT 59648  
(406) 562-3562

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.



Chris Provance  
Eisenhower Professional Development  
Program  
Montana Office of Public Instruction  
PO Box 202501  
1300 11th Avenue  
Helena, MT 59620-2501  
(406) 444-4436 / Fax: (406) 444-1373

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Stuart Knapp  
Eisenhower Professional Development  
Program  
Montana Office of Commissioner of Higher  
Education  
2500 Broadway  
Helena, MT 59620-3101  
(406) 444-6570 / Fax: (406) 444-1469

### **Northwest Educational Technology Consortium (NETC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. R\*TEC program strategies include professional development, technical assistance, and information dissemination.

Seymour Hanfling, Director, NETC  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3297  
(503) 275-9500, ext. 658 / Fax: (503) 275-0449  
(800) 211-9435 (Helpline)  
E-mail: hanflins@nwrel.org  
<http://www.netc.org/>

Gerald Malitz, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
NCES, Room 410c  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
(202) 219-1364  
E-mail: gerald\_malitz@ed.gov

### **Northwest Regional Educational Laboratory (NWREL)**

NWREL identifies effective teaching techniques and school improvement efforts within

the region and shares this information with state and local educators.

Ethel Simon-McWilliams, Executive Director  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3212  
(503) 275-9500 / Fax: (503) 275-9489  
(800) 547-6339  
<http://www.nwrel.org/>

### **Science and Mathematics Consortium for Northwest Schools**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Ralph T. Nelsen, Director  
Science and Mathematics Consortium  
for Northwest Schools (SMCNWS)  
Columbia Education Center  
171 NE 102nd Avenue  
Portland, OR 97220-4169  
(503) 760-2346 / Fax: (503) 760-5592  
E-mail: 76106.3006@compuserve.com  
<http://www.col-ed.org/smcnws/>

### **► Department of Energy (DOE)**

#### **Bonneville Power Administration**

This office participates in a broad range of educational programs for teachers and students in its Pacific Northwest (PNW) service territory. Printed educational materials focus on watershed and habitat, environmental consequences of resource choices, basic electricity, energy efficiency, and safety. Videos are available on a wide range of subjects related to the federal hydropower system in the PNW. The agency partners with customers and other entities for its educational outreach efforts. Curricula available for hands-on math and science activities include Science Outreach Learning through Discovery (S.O.L.D.) modules, the three-part Hydromania Summer Science Camp series, and Kids in the Creek. Many administration employees volunteer for classroom presentations or other educational activities. The administration also donates computers to schools in its service territory.

Mark D. Reller, Montana Liaison  
Bonneville Power Administration  
100 North Park, Suite 300  
Helena, MT 59601  
(406) 449-5789 / Fax: (406) 449-5792  
E-mail: mdreller@bpa.gov

#### **Western Area Power Administration (WAPA)**

Each February, WAPA conducts the Montana Regional Science Bowl, a community and

DOE-sponsored academic competition encouraging the study and pursuit of science and mathematics education and careers. The competition is focused to include participating Native American and other minority students from the state of Montana. The regional winner advances to the national competition, held in Washington, DC, each April.

Jane Stowe  
Western Area Power Administration  
PO Box 35800  
2900 4th Avenue North  
Billings, MT 59107-5800  
(406) 247-7455 / Fax: (406) 247-7408  
E-mail: stowe@wapa.gov

### **► Department of the Interior (DOI)**

#### **Bighorn Canyon National Recreation Area**

Programs, including guided walks and teacher guides, focus primarily on the ecology of the canyon.

Division of Interpretation  
Bighorn Canyon National Recreation Area  
PO Box 458  
Fort Smith, MT 59035  
(406) 666-2412

#### **Bozeman Fish Technology Center**

Expanding Your Horizons introduces middle school and junior high girls to careers in fish and wildlife biology. Participants are encouraged to take math and science courses in high school. Fish Necropsy provides instruction on conducting a fish necropsy, including gross internal and external and sample collection.

Elizabeth Mac Copnnell, Fishery Biologist  
Bozeman Fish Technology Center  
4050 Bridger Canyon Road  
Bozeman, MT 59715-8713  
(406) 587-9265 / Fax: (406) 586-5942  
E-mail: r6fa\_boz@mail.fws.gov

#### **Bureau of Land Management, Miles City**

National Fishing Week is celebrated with a one-half day event in which BLM staff and volunteers teach children aged 6-12 about fishing techniques, water safety, fish identification, and knot tying. Local and national sponsors provide prizes.

David Squires, Outdoor Recreation Planner  
PO Box 940  
Miles City, MT 59301  
(406) 232-4331 / Fax: (406) 232-4331

## Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Lorrene Schardt, Education Coordinator  
Bureau of Land Management  
PO Box 36800  
Billings, MT 59107  
(406) 255-2827 / Fax: (406) 255-2759

## Bureau of Reclamation Environmental Education

A variety of environmental programs, with an emphasis on water resources, is offered to teachers and students in grades K-12. Subjects vary from a groundwater model to instant snow storms and wetlands in a pan. Programs are presented in the classroom as well as outdoors at laboratory schools, summer camps, and some visitor centers. The program currently operates in the states of California, Colorado, Montana, Nevada, Idaho, and Utah.

Theresa Taylor, Environmental Education  
Program Assistant  
Denver Federal Center, D-5100, Building 67  
Denver, CO 80225  
(303) 236-9336, ext. 262 / Fax: (303) 236-3573

## Bureau of Reclamation, Montana Area Office (MTAO)

MTAO has an active public archaeology program for groups of all ages, from preschool to senior citizens. Talks on various aspects of archaeology are presented along with slides or videos. Hands-on activities are also provided for school-age children. Among these activities are interactive video question-and-answer programs, puzzles, sand-box mock archaeology sites, and mind games. The MTAO provides the programs on requests from schools and civic groups.

Passport in Time is part of the Gibson Archaeological Project, cosponsored by MTAO and the Lewis and Clark National Forest. The purposes of the project are 1) to inventory and evaluate cultural resources adjacent to the Gibson Reservoir withdrawn lands; and 2) to provide an opportunity for volunteers to work directly with professional archaeologists in archaeological investigations and cultural resources management. The field work takes place for two weeks in September each year. Volunteers and staff live and work in the field camp in the northern Rocky Mountains of Montana.

Mike Andrews, Archaeologist  
Montana Area Office  
PO Box 30137  
Billings, MT 59107  
(406) 657-6489 / Fax: (406) 657-6089

## Canyon Ferry Limnological Institute (CFLI)

A science education program is offered by the private nonprofit corporations that form the institute. The Department of Reclamation supports the effort by providing facilities for their use. In Water Monitoring and Management, personnel visit schools and public events and demonstrate how field data are collected at remote sites, transmitted to a satellite 20,000 miles away, and used in an office setting to make timely and accurate decisions involving water supply.

Katherine Jabs, Area Manager  
PO Box 30137  
Great Plains, MT 59107-0137  
(406) 247-7298 / Fax: (406) 657-6089

## DOI, Montana State Office

In the Animal Inn/Sammy Snag program, a costumed presenter tells a story about the creatures that live in dead trees/snags. The one-hour presentation uses stuffed toy animals to demonstrate habitat. Students are involved when Sammy Snag solicits questions from the audience. NILE (Northern International Livestock Exposition) Agricultural Classroom includes presentations covering various topics, such as Good Fire/Bad Fire, Mining and Minerals, and Wild Horses. Visual aids are used along with demonstrations and projects for students to do when they return to their classrooms. The target audience is fourth graders from areas surrounding Billings, Montana. During the three-day session more than 1,600 students attend the exposition.

Lorrene Schardt, Environmental Education  
Coordinator  
PO Box 36800  
Billings, MT 59107  
(406) 255-2827 / Fax: (406) 255-2759

## Glacier National Park

The park offers environmental education field trips, guided tours, and other activities. Curriculum materials are available. The Parks as Classrooms Program is designed to provide students in grades 1-6 with an introduction to the biological and cultural diversity of the park through a series of hands-on activities conducted in the classroom and the park. Individual units deal with habitat awareness, forest diversity, aquatic ecosystems, the alpine environment, and human relationships to the land.

West Lakes District Interpreter  
Glacier National Park  
West Glacier, MT 59936  
(406) 888-7942 / Fax: (406) 888-5581

Lynne Murdock, Hudson Bay District  
Naturalist  
Glacier National Park  
676 Glacier Park #16  
St. Mary, MT 59417  
(406) 732-7757 / Fax: (406) 732-7711  
E-mail: lynne\_murdock@nps.gov

## Lee Metcalf National Wildlife Refuge

The refuge offers workshops to give teachers ideas, materials, and methods for teaching about natural resources. Teachers also learn about resource people and materials for teaching about the history and culture of people native to this area. Migratory Bird Days is a series of field day programs offered to the general public. Teachers, students, families, and naturalists are invited to participate in birding activities that include topics on adaptations, behavior, identification, migration, research, habitat needs, and conservation. The statewide Junior Duck Stamp Contest, part of the Federal Junior Duck Stamp Program, is sponsored for K-12 school children. Children enter their artwork of North American waterfowl into one of four grade categories.

Beth Underwood, Park Ranger  
Lee Metcalf NWR  
PO Box 257  
Stevensville, MT 59870  
(406) 777-5552 / Fax: (406) 777-2498

## National Bison Range

The range offers a variety of environmental education activities for students and an outdoor education resource library. Discovery Workshops for Teachers are presented in the spring and fall for teachers at all grade levels and disciplines. Fall workshops teach methods for teachers without science backgrounds. Spring workshops are more science based. Special workshops are held for schools with particular needs. Schools with nature centers or those planning one are provided with design assistance and advice. The Program for Schools and People with Disabilities consists of special sessions for visiting school groups, including learning-disabled students and a special ACCESS program for people with disabilities. Summer day camps include other organizations that hold camps onsite.

Marcy Bishop, Outdoor Recreation Planner  
National Bison Range  
132 Bison Range Road  
Moiese, MT 59824  
(406) 644-2211 / Fax: (406) 644-2661

## Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Kurt Cunningham, Project WILD  
Coordinator  
Department of Fish, Wildlife, and Parks  
1420 East Sixth Avenue  
Helena, MT 59620  
(406) 444-1267 / Fax: (406) 444-4952

### Water Conservation Center

The center sponsors a Water Education Calendar and Poster Contest that results in a regional calendar produced in cooperation with the International Office of Water Education and Utah State University. The calendar highlights winners of state poster contests that emphasize water resource issues. It is published and distributed to all elementary schools throughout Idaho, Washington, Oregon, Montana, Alaska, and Hawaii.

Debbie Cross, Public Affairs Officer  
Water Conservation Center  
PN-6430  
North Curtis Road  
Boise, ID 83705  
(208) 378-5020 / Fax: (208) 378-5066

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Ingrid Danielson, Bureau Chief  
State Training Bureau  
Montana Department of Labor and Industry  
1327 Lockey Street  
PO Box 1728  
Helena, MT 59624  
(406) 444-2416 / Fax: (406) 444-3037

### ► Department of Transportation (DOT)

#### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences

in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

#### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Michael D. Ferguson  
Aviation Education Resource Center  
Montana DOT Aeronautics Division  
PO Box 5178  
Helena, MT 59601  
(406) 444-2506

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Cece Forget, Environmental Education  
Coordinator  
Environmental Protection Agency  
One Denver Place (OCPI), Suite 500  
999 18th Street  
Denver, CO 80202-2405  
(303) 312-6605 / Fax: (303) 312-6961

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 8  
999 18th Street  
Denver, CO 80202-2466  
(303) 312-6605 / Fax: (303) 312-6961

### ► National Aeronautics and Space Administration (NASA)

#### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

#### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

## NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Western Montana College  
NASA Regional Educator Resource Center  
Carson Library  
710 South Atlantic  
Dillon, MT 59725  
(406) 683-7492

## Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Montana Space Grant Consortium  
Department of Physics  
Montana State University  
Bozeman, MT 59717-0350  
(406) 994-6170

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Patrick Weasel Head, Program Director  
Tribal College Rural Systemic Initiative  
1010 NE 53rd Avenue  
Portland, OR 97213  
(503) 493-1665 / Fax: (503) 281-1344  
E-mail: [weaselp@worldnet.att.net](mailto:weaselp@worldnet.att.net)  
<http://hprsi.net/>

# Oregon

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

James Rutledge, Interim State 4-H Leader  
Ballard Extension Hall 105  
Oregon State University  
Corvallis, OR 97331-3608  
(503) 737-2421 / Fax: (541) 737-1332  
E-mail: [rutledgj@oes.orst.edu](mailto:rutledgj@oes.orst.edu)

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Mary Steward  
Agri-Business Council  
1200 NW Front Avenue, Suite 290  
Portland, OR 97209-2800  
(503) 221-8756

## ► Department of Commerce (DOC)

### National Oceanic and Atmospheric Administration (NOAA)

The administration coordinates agency-wide efforts to educate the public about Earth-systems science and to increase awareness of the agency's mission. The Teacher-at-Sea Program provides teachers (K-16, any subject) the opportunity to participate in a field research project along with scientists aboard a NOAA research vessel.

Judy Sohl  
Educational Affairs Office  
National Oceanic and Atmospheric Administration  
7600 Sand Point Way NE  
Seattle, WA 98115-0070  
(206) 526-6622 / Fax: (206) 526-6609

## National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Michael Spranger  
Washington Sea Grant  
University of Washington, HG-3  
3716 Brooklyn Avenue NE  
Seattle, WA 98105-6716  
(206) 685-9261 / Fax: (206) 685-0380

## South Slough National Estuarine Research Reserve

The reserve offers onsite and in-school education programs, as well as custom educational programs. Reservations are required.

Tom Gaskill, Education Coordinator  
South Slough National Estuarine Research Reserve  
PO Box 5417  
Charleston, OR 97420  
(541) 888-5558 / Fax: (541) 888-5559  
E-mail: [tgaskill@harborside.com](mailto:tgaskill@harborside.com)

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Wanda Monthey  
Eisenhower Mathematics and Science Program  
Oregon Department of Education  
255 Capitol Street NE  
Salem, OR 97310-0203  
(503) 378-8004, ext. 257 / Fax: (503) 378-7968

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.



Holly Zanville  
Eisenhower Professional Development  
Program  
Oregon Department of Education  
PO Box 3175  
Eugene, OR 97403-0175  
(541) 346-5726 / Fax: (541) 346-5764

### **Northwest Educational Technology Consortium (NETC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. R\*TEC program strategies include professional development, technical assistance, and information dissemination.

Seymour Hanfling, Director, NETC  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3297  
(503) 275-9500, ext. 658 / Fax: (503) 275-0449  
(800) 211-9435 (Helpline)  
E-mail: hanflins@nwrel.org  
<http://www.netc.org/>

Gerald Malitz, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
NCES, Room 410c  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
(202) 219-1364  
E-mail: gerald\_malitz@ed.gov

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Northwest Regional Educational Laboratory  
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Portland, OR 97204-3212  
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<http://www.nwrel.org/>

### **Science and Mathematics Consortium for Northwest Schools**

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Ralph T. Nelsen, Director  
Science and Mathematics Consortium  
for Northwest Schools (SMCNWS)  
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171 NE 102nd Avenue  
Portland, OR 97220-4169  
(503) 760-2346 / Fax: (503) 760-5592  
E-mail: 76106.3006@compuserve.com  
<http://www.col-ed.org/smcnws/>

### **► Department of Energy (DOE)**

#### **Bonneville Power Administration**

This office participates in a broad range of educational programs for teachers and students in its Pacific Northwest (PNW) service territory. Printed educational materials focus on watershed and habitat, environmental consequences of resource choices, basic electricity, energy efficiency, and safety. Videos are available on a wide range of subjects related to the federal hydropower system in the PNW. The agency partners with customers and other entities for its educational outreach efforts. Curricula available for hands-on math and science activities include Science Outreach Learning through Discovery (S.O.L.D.) modules, the three-part Hydromania Summer Science Camp series, and Kids in the Creek. Many administration employees volunteer for classroom presentations or other educational activities. The administration also donates computers to schools in its service territory. BPA sponsors the NW Regional Middle School and High School Science Bowl held in Portland, Oregon, for students from Washington and Oregon.

Joan McNamara, Community Education  
Coordinator  
Bonneville Power Administration  
PO Box 3621 Routing AR-7-C  
Portland, OR 97208-3621  
(503) 230-3709 / Fax: (503) 230-5884  
E-mail: jhmcnamara@bpa.gov

### **► Department of the Interior (DOI)**

#### **Bureau of Land Management State Office**

This office provides information about educational programs, materials, and local land-management issues.

John Craig, Education Coordinator  
Bureau of Land Management  
PO Box 2965, 1515 SW 5th Avenue  
Portland, OR 97208-2965  
(503) 952-6287 / Fax: (503) 952-6333

### **Crater Lake National Park**

Guided nature walks focus on geology and environmental education. Educational outreach includes nationally available resources such as lesson plans, a teacher newsletter, and video loans. Educators in the region can participate in teacher workshops. Locally, educational services and classroom presentations are also available.

Marianne Mills, Assistant Chief  
Interpretive and Cultural Resource Manager  
Crater Lake National Park  
Box 7  
Crater Lake, OR 97604  
(503) 594-2211 / Fax: (503) 594-2299

### **John Day Fossil Beds National Monument**

Guided walks and lectures focus on the monument's paleontology and geology. A demonstration laboratory is available. Two science programs are offered, one featuring geology for fifth and sixth grade students and the other featuring paleontology for seventh and eighth grade students. Programs are designed to meet the Oregon Department of Education Science Curriculum goals.

John Day Fossil Beds National Monument  
HCR 82, Box 126  
Kimberly, OR 97848  
(541) 987-2333

### **Oregon Caves National Monument**

*Teacher's Guide to Caves and Serpentine Plants* is a 260-page resource including seven lesson plans, reference appendices, and slides. Each lesson plan includes pre- and post-site classroom activities and field trip descriptions. Field trips are led by park rangers when they are available. The guide covers subjects such as endemic plants, cave formations, and bats.

Sheri Forbes, Chief of Interpretation  
Oregon Caves National Monument  
19000 Caves Highway  
Cave Junction, OR 97523  
(503) 592-2100 / Fax: (503) 592-3981

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Shann Weston, Project WILD Coordinator  
Oregon Department of Fish and Wildlife  
PO Box 59  
Portland, OR 97207  
(503) 229-5410, ext. 427 / Fax: (503) 229-5602

### **Travis Tyrrell Seed Orchard**

The orchard is at the center of Bureau of Land Management's forestry genetics and tree

improvement program. The facility is located southwest of Eugene in the Coast Range Mountains. Staff make presentations on genetics and tree improvement. Groups can tour the facility to get a firsthand view of a working seed orchard. The facility also has an interpretive hiking trail that allows opportunities for plant identification and wildlife viewing.

Glenn Miller, Seed Orchard Manager  
Bureau of Land Management  
Eugene District  
2890 Chad Drive  
Eugene, OR 97408  
(541) 683-6445 / Fax: (541) 683-6597

### **Water Conservation Center**

The center sponsors a Water Education Calendar and Poster Contest that results in a regional calendar produced in cooperation with the International Office of Water Education and Utah State University. The calendar highlights winners of state poster contests that emphasize water resource issues. It is published and distributed to all elementary schools throughout Idaho, Washington, Oregon, Montana, Alaska, and Hawaii.

Debbie Cross, Public Affairs Officer  
Water Conservation Center  
PN-6430  
North Curtis Road  
Boise, ID 83705  
(208) 378-5020 / Fax: (208) 378-5066

## **► Department of Labor (DOL)**

### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Roger Bassett, Administrator  
Oregon of Community College Services  
255 Capitol Street NE, Suite 399  
Salem, OR 97310-1600  
(503) 373-1995 / Fax: (503) 378-3365

## **► Department of Transportation (DOT)**

### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services,

including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
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Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Elizabeth Johnson  
Oregon Department of Transportation  
Aeronautics Division  
3040 25th Street SE  
Salem, OR 97310-0100  
(503) 378-4882

## **► Environmental Protection Agency (EPA)**

### **Environmental Research Laboratory**

The laboratory manages a curriculum development program in addition to a student-scientist mentor program and an outreach lecture series. Other programs include science fairs and laboratory tours.

U.S. Environmental Protection Agency  
Environmental Research Laboratory  
200 SW 35th Street  
Corvallis, OR 97333  
(503) 754-4684

### **EPA Regional Office**

This office sponsors innovative education projects, provides technical information and assistance, works with state organizations to further environmental education efforts, and coordinates the educational grant program for the region. Free copies of publications, posters, and teacher packets are available, and videos are provided for loan. The office also offers the services of an environmental education clearinghouse that connects those who provide educational resources with classroom teachers and informal educators.

Sally Hanft, Environmental Education  
Coordinator  
Environmental Protection Agency  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 10  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

### ► National Aeronautics and Space Administration (NASA)

#### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

#### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

#### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Oregon Museum of Science and Industry  
1945 SE Water Avenue  
Portland, OR 97214  
(503) 797-4551

#### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Oregon Space Grant Consortium  
Oregon State University  
Department of Nuclear Engineering  
Radiation Center C116  
Corvallis, OR 97331-5902  
(541) 737-2414

## Washington

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Patricia Boyes, Interim Assistant  
Director, 4-H  
Washington State University-Puyallup Center  
7612 Pioneer Way East  
Puyallup, WA 98371-4998  
(206) 840-4589 / Fax: (206) 840-4671  
E-mail: boyes@wsuvm1.csc.wsu.edu

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Shan Schnebly  
Washington Ag in the Classroom  
PO Box 786  
Ellensburg, WA 98926-0786  
(509) 962-4134

Doug Hassien  
PO Box 4256  
Olympia, WA 98504-2560  
(206) 902-1940

### ► Department of Commerce (DOC)

#### National Oceanic and Atmospheric Administration (NOAA)

The administration coordinates agency-wide efforts to educate the public about Earth-sys-

tems science and to increase awareness of the agency's mission. The Teacher-at-Sea Program provides teachers (K-16, any subject) the opportunity to participate in a field research project along with scientists aboard a NOAA research vessel.

Judy Sohl  
Educational Affairs Office  
National Oceanic and Atmospheric Administration  
7600 Sand Point Way NE  
Seattle, WA 98115-0070  
(206) 526-6622 / Fax: (206) 526-6609

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Michael Spranger  
Washington Sea Grant  
University of Washington, HG-3  
3716 Brooklyn Avenue NE  
Seattle, WA 98105-6716  
(206) 685-9261 / Fax: (206) 685-0380

#### Padilla Bay National Estuarine Research Reserve

The reserve offers both onsite and in-school education programs.

Glen Alexander, Education Coordinator  
Padilla Bay National Estuarine Research Reserve  
1043 Bayview-Edison Road  
Mount Vernon, WA 98273  
(360) 428-1558 / Fax: (360) 428-1491  
E-mail: alex@padillabay.gov

### ► Department of Defense (DoD)

#### Naval Submarine Base, Bangor

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout the area. The commander of Submarine Base, Bangor, is the local coordinator for projects in Bangor and Silverdale.

COMSUBASE, Bangor  
Commander  
Submarine Base, Bangor  
1100 Humley Road  
Silverdale, WA 98315-1199  
(360) 396-6389

## Naval Undersea Museum

The museum presents exhibits and educational programs that explain the sciences and technologies employed under the sea. Tours and educational programs are available upon request.

Naval Undersea Museum  
610 Dowell Street  
Keyport, WA 98345-7610  
(360) 396-4148, ext. 201

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Peggy Vatter  
Eisenhower Professional Development Program  
Office of the Superintendent of Public Instruction  
PO Box 47200, Old Capitol Building  
Olympia, WA 98504-7200  
(360) 753-6757 / Fax: (360) 586-2728

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

David Kennedy  
Eisenhower Professional Development Program  
Office of the Superintendent of Public Instruction  
PO Box 47200, Old Capitol Building  
Olympia, WA 98504-7200  
(360) 753-2574 / Fax: (360) 586-3894

### Northwest Educational Technology Consortium (NETC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. R\*TEC program strategies include professional development,

technical assistance, and information dissemination.

Seymour Hanfling, Director, NETC  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3297  
(503) 275-9500, ext. 658 / Fax: (503) 275-0449  
(800) 211-9435 (Helpline)  
E-mail: hanflins@nwrel.org  
<http://www.netc.org/>

Gerald Malitz, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
NCES, Room 410c  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
(202) 219-1364  
E-mail: gerald\_malitz@ed.gov

### Northwest Regional Educational Laboratory (NWREL)

NWREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Ethel Simon-McWilliams, Executive Director  
Northwest Regional Educational Laboratory  
101 SW Main Street, Suite 500  
Portland, OR 97204-3212  
(503) 275-9500 / Fax: (503) 275-9489  
(800) 547-6339  
<http://www.nwrel.org/>

### Science and Mathematics Consortium for Northwest Schools

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Ralph T. Nelsen, Director  
Science and Mathematics Consortium for Northwest Schools (SMCNWS)  
Columbia Education Center  
171 NE 102nd Avenue  
Portland, OR 97220-4169  
(503) 760-2346 / Fax: (503) 760-5592  
E-mail: 76106.3006@compuserve.com  
<http://www.col-ed.org/smcnws/>

## ► Department of Energy (DOE)

### Bonneville Power Administration

This office participates in a broad range of educational programs for teachers and students in its Pacific Northwest (PNW) service territory. Printed educational materials focus on watershed and habitat, environmental consequences of resource choices, basic electricity,

energy efficiency, and safety. Videos are available on a wide range of subjects related to the federal hydropower system in the PNW. The agency partners with customers and other entities for its educational outreach efforts. Curricula available for hands-on math and science activities include Science Outreach Learning through Discovery (S.O.L.D.) modules, the three-part Hydromania Summer Science Camp series, and Kids in the Creek. Many administration employees volunteer for classroom presentations or other educational activities. The administration also donates computers to schools in its service territory. BPA sponsors the NW Regional Middle School and High School Science Bowl held in Portland, Oregon, for students from Washington and Oregon.

Kyra M. Chatfield, Community Relations Coordinator  
Bonneville Power Administration  
1601 5th Avenue, Suite 1000  
Seattle, WA 98101  
(206) 216-4284 / Fax: (206) 216-4399  
E-mail: kmchatfield@bpa.gov

### Pacific Northwest National Laboratory (PNNL)

Through focused partnerships, the laboratory's human and technical resources are linked with school districts and other academic organizations to support science, mathematics, and technology education reform in schools. Partnerships focus on 1) enhancing curriculum, instruction, and assessment in elementary and secondary schools; 2) strengthening the professional development of teachers; 3) developing connectivity with schools using information technology; 4) loaning surplus equipment; 5) building the science literacy of all students, including those from groups historically underrepresented in scientific and technical areas; 6) leveraging local, state, and national science education reform efforts; and 7) supporting school-to-work opportunities for those with the interest, ability, and classroom preparation to link their academic studies to the world of science and engineering outside the classroom.

Jeff Estes, Deputy Manager  
University and Science Education Programs  
Pacific Northwest National Laboratory  
PO Box 999, MS K1-72  
Richland, WA 99352  
(509) 375-2820 / Fax: (509) 375-2576  
E-mail: jeff.estes@pnl.gov

### Regional Science Bowl

The DOE sponsors a Regional Science Bowl for Washington state high schools in the tricity area. This is a public/private-sponsored academic competition held each February that encourages the study of science and mathematics and the pursuit of related



careers. The regional winner advances to the national competition held each spring.

Bartley Fain  
Human Resources Division  
Richland Operations Office  
PO Box 550  
Richland, WA 99352  
(509) 376-8088 / Fax: (509) 376-5335

## ► Department of the Interior (DOI)

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

John Craig, Education Coordinator  
Bureau of Land Management  
PO Box 2965, 1515 SW 5th Avenue  
Portland, OR 97208-2965  
(503) 952-6287 / Fax: (503) 952-6333

### Earth Science Information Center, Spokane

The center offers information and sales service for U.S. Geological Survey map products and Earth science publications.

U.S. Geological Survey  
Spokane Earth Science Information Center  
U.S. Post Office Building, Room 135  
West 904 Riverside Avenue  
Spokane, WA 99201-1088  
(509) 353-2524 / Fax: (509) 353-2872  
(800) USA-MAPS  
E-mail: esnfic@mailmcan1.wr.usgs.gov

### Mount Rainier National Park

The park offers regularly scheduled guided nature walks and lectures about the park's ecology, environment, and geology. *Where the River Begins* is an educator's guide to the Nisqually River in the park. This interdisciplinary curriculum for grades K-12 is a cooperative program with the Nisqually River Education Project. A CD-ROM with the same title incorporates interactive animations, games, slides, and videos to enliven information about the natural and human history of the park.

Education Office  
Mount Rainier National Park  
Tahoma Woods, Star Route  
Ashford, WA 98304  
(206) 569-2211, ext. 3312 / Fax: (206) 569-2187

### Nisqually National Wildlife Refuge

The education program informs the public (both children and adults) about National Wildlife Refuges and their role in the protec-

tion and preservation of wildlife and related habitats and resources. The variety of habitat and wildlife species at Nisqually NWR is featured.

Willard B. Hesselbart, Refuge Manager  
Nisqually NWR  
100 Brown Farm Road  
Olympia, WA 98516  
(360) 753-9467 / Fax: (360) 534-9302

### Olympic National Park

The park offers teacher workshops, guided nature walks, and curriculum materials that can be used as guides to the park. Olympic also allows educators to borrow Discovery Trunks that contain educational materials and activities. The program Living Forest (also referred to as The Park in Your Backyard) is designed to help students, teachers, and parents learn about and enjoy the lowland and old growth forests of the park. The program includes a 180-page curriculum guide containing natural history information and activities for both the classroom and outdoors. Three educational trunks with learning materials and activity guides are available for teachers to check out and use for two-week periods. In addition, the park provides varied field trip opportunities, as well as several teacher workshops each year.

Education Coordinator  
Olympic National Park  
600 East Park Avenue  
Port Angeles, WA 98362  
(206) 452-4501, ext. 236 / Fax: (206) 452-0307

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Margaret Tudor, Project WILD Coordinator  
Washington Department of Wildlife  
600 Capitol Way North  
Olympia, WA 98501-1091  
(206) 753-1702 / Fax: (206) 664-3515

### Ridgefield National Wildlife Refuge

The Environmental Education Program provides access to outdoor sites for local teachers to bring in their classes. Teachers provide activity planning and guidance in environmental education. The refuge staff provide scheduling to avoid conflicts and arrange for an orientation by volunteers.

James R. Clapp, Refuge Operations Specialist  
Ridgefield NWR  
PO Box 457  
Ridgefield, WA 98642  
(360) 887-4106 / Fax: (360) 887-4109

### Water Conservation Center

The center sponsors a Water Education Calendar and Poster Contest that results in a regional calendar produced in cooperation with the International Office of Water Education and Utah State University. The calendar highlights winners of state poster contests that emphasize water resource issues. It is published and distributed to all elementary schools throughout Idaho, Washington, Oregon, Montana, Alaska, and Hawaii.

Debbie Cross, Public Affairs Officer  
Water Conservation Center  
PN-6430  
North Curtis Road  
Boise, ID 83705  
(208) 378-5020 / Fax: (208) 378-5066

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Gary Gallwas, Assistant Commissioner  
Employment and Training Division  
Employment Security Department  
PO Box 9046  
Olympia, WA 98507-9046  
(360) 438-4611 / Fax: (360) 438-3224

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.

► **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

► **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Megan Pursell, ANM-15  
FAA Northwest Mountain Region  
1601 Lind Avenue SW  
Renton, WA 98055  
(425) 227-1725 / Fax: (425) 227-1010

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Gregory Moyce, Education Program Manager  
Aviation Education Resource Center  
Museum of Flight  
9404 East Marginal Way South  
Seattle, WA 98108  
(206) 764-5700

### ► **Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office sponsors innovative education projects, provides technical information and assistance, works with state organizations to further environmental education efforts, and coordinates the educational grant program for the region. Free copies of publications, posters, and teacher packets are available, and videos are provided for loan. The office also offers the services of an environmental education clearinghouse that connects those who provide educational resources with classroom teachers and informal educators.

Sally Hanft, Environmental Education Coordinator  
Environmental Protection Agency  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 10  
1200 Sixth Avenue (EXA-142)  
Seattle, WA 98101  
(206) 553-1207 / Fax: (206) 553-0149  
(800) 424-4372

### ► **National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
University of Washington  
352 Johnson Hall, Box 351650  
Seattle, WA 98195  
(206) 543-1943

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Washington Space Grant Consortium  
University of Washington  
Space Grant Box 351650  
Seattle, WA 98195-1650  
(206) 543-0953

- ▶ American Samoa
- ▶ Commonwealth of the Northern Mariana Islands
- ▶ Federated States of Micronesia
- ▶ Guam
- ▶ Hawaii
- ▶ Republic of the Marshall Islands
- ▶ Republic of Palau

# Pacific Region

## Pacific Mathematics and Science Regional Consortium



The Pacific Mathematics and Science Regional Consortium is one of 10 Eisenhower Mathematics and Science Regional Consortia established by the U.S. Department of Education. The National Network of Eisenhower Regional Consortia and the Eisenhower National Clearinghouse for Mathematics and Science Education (ENC) form a coordinated, field-based national infrastructure to promote systemic educational reform.

The consortium serves 10 Pacific Island entities. Its mission is to support professional communities of educators and their partners as they work to improve mathematics and science teaching and learning. The Pacific Consortium believes the path to improvement in the classroom lies within and through teachers' professional communities, which generate knowledge, craft new standards, and sustain participants in their efforts to reflect, examine, experiment, and change. To this end, the consortium focuses on providing technical assistance in implementation, innovation, and dissemination of exemplary materials, teaching strategies, and assessment resources for elementary and secondary students, teachers, and administrators.

Given the cultural, linguistic, economic, and environmental diversity of the Pacific region, as well as the geographic isolation of a significant number of the region's teachers, many of the projects and programs supported by the Pacific Consortium involve long-term and multiphase professional development that combines a variety of models: training, teacher-as-researcher study groups, teacher case studies, credit coursework, and a new educator-in-residence approach. Consortium support often incorporates a training-of-trainers model to ensure that local resources are available. It also makes use of local, regional, and national telecommunications networks and builds in local adaptations that recognize and celebrate the diversity that enriches Pacific education.

One major feature of the Pacific Consortium is the Mathematics and Science Leadership Team, which consists of mathematics and science specialists from each entity. The team is the core development and implementation group for all regional documents and projects carried out through the consortium. It also

determines the kinds of activities to be carried out in the home entities of the team members, as well as supporting school-based initiatives through the Visions and Dreams Program for each entity's schools and teachers. The competition is funded through the Pacific Consortium. Below are some of the activities the leadership team has developed or is implementing across the region and within each entity.

### Pacific Consortium Regional Activities

#### ► The Pacific Educational Conference

The consortium uses this conference to highlight activities of interest to the region's educators, to disseminate information about the consortium's regional and entity-specific projects, to demonstrate effective classroom practices and quality assessment strategies, and to distribute exemplary materials.

#### ► Support for Educational Initiatives

The Pacific Consortium supports region-wide and individual entity initiatives. It works in partnership with the University of Hawaii's Curriculum Research and Development Group (CRDG), whose staff support the work of the leadership team and provide training and technical assistance in implementing regionally and nationally recognized courses and projects. In collaboration with the CRDG mathematics and science faculty, the team has developed *Pacific Standards for Excellence in Mathematics*, *Pacific Standards for Excellence in Science*, and *Pacific Standards for Excellence in Teaching, Assessment, and Professional Development*. These standards are appropriate for the region and are aligned with world-class standards.

#### ► Networking

The consortium is encouraging a network of teachers across the Pacific and beyond to share information, ideas, and projects.

#### ► Assessment Projects

The Yap Classroom Learning Assessment Project is a multiphase initiative addressing improvement in classroom assessment, curriculum, and instruction through training of trainers and direct teacher training.

The Commonwealth of the Northern Mariana Islands (CNMI) Performance Assessment Project is similar to the Yap Project. Program managers in CNMI have formed a training team that is developing performance tasks, assessment criteria, and scoring rubrics.

#### ► The Guam Mathematics Project

This project involves teachers—one from each of Guam's 29 public elementary schools and middle schools—in learning how to teach and assess school mathematics for understanding. Ten of these teachers will receive additional staff development to become trainers within the local school district.

#### ► School/Community-Based Management (SCBM) Projects

Serving Hawaii schools, these projects involve consortium staff and partners from the University of Hawaii one to two days per month to provide focused technical assistance (developing curriculum, creating active learning environments, using heterogeneous work groups, and conducting classroom assessments) to small groups of teachers who plan and implement integrated thematic units.

The Pacific Consortium uses diverse resources to meet the needs of the region's mathematics and science educators. *Voyages in Mathematics and Science* is a quarterly teacher-oriented publication that emphasizes practical applications of quality mathematics and science strategies.

Another effort of the Pacific Consortium is to familiarize educators with technologies that can improve and enhance the teaching and learning of science and mathematics in the region's classrooms. The mechanism for this effort is the Pacific Regional Technology Demonstration Site, which was in Honolulu but has now begun to move to other locales in the region. The Demonstration Site is a multi-prong partnership among ENC, the Pacific Consortium, departments of education, and other educational institutions in the region.

Developed through the collaborative efforts of the 10 regional educational laboratories' Laboratory Networking Project (LNP), the



Pacific Consortium provides exemplary resources for training in alternative assessment as well as in successful practices in mathematics and science education. A database, also developed through interlaboratory collaboration and housed at the consortium, describes alternative assessments in mathematics and science. Printed copies are available.

**Paul S. Dumas**  
*Director*

**Kathy Busick**  
*Program Specialist*

**Alice Borja**  
*Program Specialist*

**Barbara Dougherty**  
*Program Specialist*

Pacific Mathematics and Science Regional Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://w3.prel.hawaii.edu/programs/math-science.html>

Western Pacific Service Center  
Bank of Hawaii Building, Suite 203  
Marina Heights Business Park  
PPP 145, Box 10000  
Puerto Rico, Saipan, MP 96950

**Pam Legdesog**  
*Program Specialist*

Yap Service Center  
PO Box 985  
Colonia, Yap, FM 96943

Tavita Elisara, 4-H Extension Agent  
American Samoa Land Grant  
American Samoa CES  
PO Box 2609  
Mapusaga, AS 96799  
011 (684) 699-2019 / Fax: (684) 699-4595

### ► Department of Commerce (DOC)

#### **Fagatele Bay National Marine Sanctuary**

The sanctuary offers in-school presentations and sponsors the Marine Science Summer Camp, a research-oriented two-week classroom, laboratory, and field-experience program.

Punipua Lagai, Education Coordinator  
Fagatele Bay National Marine Sanctuary  
PO Box 4318  
Pago Pago, AS 96799  
011 (684) 633-7354 / Fax: 011 (684) 633-7355  
E-mail: [plagai@ocean.nos.noaa.gov](mailto:plagai@ocean.nos.noaa.gov)

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Liz Kumabe  
Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
(808) 956-2860 / Fax: (808) 956-2858

### ► Department of Education (ED)

#### **Pacific Mathematics and Science Regional Consortium**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Paul Dumas, Program Director  
Pacific Mathematics and Science Regional Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://w3.prel.hawaii.edu/programs/math-science.html>

#### **Pacific Resources for Education and Learning (PREL)**

PREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John W. Kofel, Executive Director  
PREL  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://prel-oahu-1.prel.hawaii.edu/>

#### **Pacific and Southwest Regional Technology in Education Consortium (PSR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: [clmer@csulb.edu](mailto:clmer@csulb.edu)  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

### ► Department of Labor (DOL)

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

## **American Samoa**

### ► Department of Agriculture (USDA)

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

To'afa Vaiaga'e  
ASG-Employment Development and Training  
Center  
Department of Human Resources  
American Samoa Government  
Pago Pago, AS 96799  
(684) 633-5172 / Fax: (684) 633-1139

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Stacey Benfer, Environmental Education  
Coordinator  
Environmental Protection Agency  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1586 / Fax: (415) 744-1605

#### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 9  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

## Commonwealth of the Northern Mariana Islands

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Bill Cabrera, Acting Director, 4-H  
Northern Marianas College  
PO Box 1250  
Saipan, MP 96950  
(670) 234-9022 / Fax: (670) 234-0054  
E-mail: BillC@nmcnet.edu

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Liz Kumabe  
Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
(808) 956-2860 / Fax: (808) 956-2858

### ► Department of Education (ED)

#### Pacific Mathematics and Science Regional Consortium

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Paul Dumas, Program Director  
Pacific Mathematics and Science Regional  
Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://w3.prel.hawaii.edu/programs/math-science.html>

#### Pacific Resources for Education and Learning (PREL)

PREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John W. Kofel, Executive Director  
PREL  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://prel-oahu-1.prel.hawaii.edu/>

#### Pacific and Southwest Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-  
Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: clmer@csulb.edu  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team  
Leader  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

► **Department of Labor  
(DOL)**

**Job Training Partnership Act (JTPA)  
Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Felix Nogis, JTPA Administrator  
Office of the Governor  
Commonwealth of the Northern Mariana  
Islands  
Civic Center, PO Box 1799  
Saipan, MP 96950  
(670) 664-1700 / Fax: (670) 322-5096

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**Federated States  
of Micronesia**

**Chuuk  
Kosrae  
Pohnpei  
Yap**

► **Department of Agriculture  
(USDA)**

**4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Anita R. Suta, Director CES  
College of Micronesia  
PO Box 1179  
Federated States of Micronesia  
Kolonía, Pohnpei, FM 96941  
(691) 320-2728 / Fax: (691) 320-2726

**Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Ruben Dayrit  
CTAS/College of Micronesia  
Kolonía, Pohnpei, FMS 96941  
(691) 320-2738 / Fax: (691) 320-2726

► **Department of  
Commerce (DOC)**

**National Sea Grant College  
Program, COAST Operation  
Pathfinder**

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Liz Kumabe  
Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
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► **Department of Education  
(ED)**

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Pacific Mathematics and Science Regional  
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Pacific Resources for Education and Learning  
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PREL

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<http://prel-oahu-1.prel.hawaii.edu/>

**Pacific and Southwest Technology  
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PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: [clmer@csulb.edu](mailto:clmer@csulb.edu)  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

► **Department of Labor  
(DOL)**

**Job Training Partnership Act  
(JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Kapilly Capelle, Director  
Office of Administrative Service  
Federated States of Micronesia  
Palikir, Pohnpei  
Eastern Caroline Islands, FM 96941  
(691) 320-2618 / Fax: (691) 320-5693

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**Guam**

► **Department of  
Agriculture (USDA)**

**4-H State Leader**

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Theodore M. Iyechade, 4-H Program Leader  
College of Agriculture and Life Sciences  
CES, 4-H, and Youth  
University of Guam  
Mangilao, GU 96923  
(671) 734-4753 / Fax: (671) 734-6842

### **Ag in the Classroom State Leader**

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Victor Artero  
College of Agriculture and Life Sciences  
University of Guam  
Mangilao, GU 96923  
(671) 735-2009 / Fax: (671) 734-6842

### **► Department of Commerce (DOC)**

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Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
(808) 956-2860 / Fax: (808) 956-2858

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Pacific Resources for Education and Learning  
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<http://psrtec.clmer.csulb.edu/>

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### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

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William E. Cundiff, Director  
Agency for Human Resources Development  
Government of Guam  
PO Box CQ  
Agana, GU 96910  
(671) 475-0750 / Fax: (671) 477-5022

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

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# Hawaii

## ► Department of Agriculture (USDA)

### 4-H State Leader

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Rose Saito, Acting Program Leader  
4-H Youth Development  
University of Hawaii at Manoa  
3050 Maile Way  
Honolulu, HI 96822  
(808) 956-8327 / Fax: (808) 988-9681  
E-mail: ta\_4h@avax.ctahr.hawaii.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Michael Barros  
Department of Education  
Building A, Room 23  
2530 10th Avenue  
Honolulu, HI 96816  
(808) 733-9125

## ► Department of Commerce (DOC)

### Hawaiian Islands Humpback Whale National Marine Sanctuary

A management plan is currently under development that includes an education and interpretation section. Educational activities highlight the humpback whale and Hawaii's unique marine environment.

Allen Tom, Manager  
Hawaiian Islands Humpback Whale  
National Marine Sanctuary  
726 South Kihei Road  
Kihei, HI 96753  
(808) 879-2818 / Fax: (808) 874-3815  
(800) 831-4888 (Neighbor Islands)  
E-mail: atom@ocean.nos.noaa.gov

### National Sea Grant College Program, COAST Operation Pathfinder

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Liz Kumabe  
Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
(808) 956-2860 / Fax: (808) 956-2858

## ► Department of Defense (DoD)

### Naval Base, Pearl Harbor

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations in the area.

COMNAVBASE, Pearl Harbor HI  
Commander  
Naval Base  
Pearl Harbor, HI 96860-5350  
(808) 474-4750

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Justin Mew  
Eisenhower Professional Development  
Program  
PO Box 2360  
Honolulu, HI 96825-2099  
(808) 394-1341 / Fax: (808) 394-1304

Kathleen Nishimura  
Eisenhower Professional Development  
Program  
PO Box 2360  
Honolulu, HI 96825-2099  
(808) 956-7704 / Fax: (808) 956-3106

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State

Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Thomas W. Sileo  
Eisenhower Professional Development  
Program  
University of Hawaii, College of Education  
1776 University Avenue  
Honolulu, HI 96825  
(808) 956-7704 / Fax: (808) 956-3106

### Pacific Mathematics and Science Regional Consortium

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Paul Dumas, Program Director  
Pacific Mathematics and Science Regional  
Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
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PSR\*TEC  
School of Education, ED2, Room 210  
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Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
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Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

## ► Department of Energy (DOE)

### Regional Science Bowl

DOE sponsors a Regional Science Bowl for Hawaii high schools. Held each February, this is a public/private-sponsored academic competition that encourages the study of science and mathematics and the pursuit of related careers. The regional winner advances to the national competition held each spring.

Eileen Yoshinaka  
PO Box 50168  
Honolulu, HI 96850  
(808) 541-2564 / Fax: (808) 541-2562

## ► Department of the Interior (DOI)

### Haleakala National Park

Guided environmental field trips for school groups are the primary activities offered at the park. Teacher guides and pre-visit materials are provided for field trip participants.

Other programs include the following:

- **If Rocks Could Talk** lets students conduct experiments and map landforms while hiking. The goal is to learn how Hawaii was created by volcanoes and destroyed by erosion. Pre- and post-visit classroom activities are available.
- **Kilohoku O Haleakala** is an hour-long bimonthly program on celestial bodies and events, the role of astronomy in Hawaiian culture, and related mythology.

► **Sliding Sands Wilderness Hike** is a two-mile, two-hour walk into the cinder desert to examine aeolian desert, geology, early Hawaiian usage and mythology, and endangered species.

► **Waikamoi Cloud Forest Hike** is a three-hour, three-mile hike through privately owned reforested grazing land into intact old growth forest to examine impacts on the native biota and the role of the forest in Hawaiian culture.

► **Who Lives at Haleakala?** examines species of plants and animals found on Haleakala that are unique and found nowhere else on Earth due to adaptation and isolation of habitat. Pre- and post-visit classroom activities are available.

Special Program Coordinator  
Division of Interpretation  
Haleakala National Park  
PO Box 369  
Makawao, HI 96768  
(808) 572-4453 / Fax: (808) 572-1304

### Hawaii Volcanoes National Park

The park offers nature and orientation walks to inform students about volcanic phenomena and the geological mechanics of volcanoes. In addition, a comprehensive onsite program educates state and visiting mainland students about the adaptation of Hawaiian flora, fauna, and people to their environment. The teacher guide to the geology of the park provides lesson plans and audiovisual materials.

Richard Rasp, Chief Park Interpreter  
Hawaii Volcanoes National Park  
PO Box 52  
Hawaii National Park, HI 96718  
(808) 967-7184 / Fax: (808) 967-8068

### Kalaupapa National Historical Park

The Molokai Educational Service Project consists of presentations to fourth through sixth graders on Hawaiian natural and cultural history topics such as geology, native plants and animals, and Polynesian settlement and culture. Classroom presentations are followed by field trips:

Penny Martin, Education Specialist  
Kalaupapa NHP, HI 96742  
(808) 553-5136 or 567-6802  
Fax: (808) 567-6729

### Kaloko-Honokohau National Historical Park

Staff offer guided walks and activities to educate students about the geology, anthropology, biology, and history of the park.

Division of Interpretation  
Kaloko-Honokohau NHP  
73-4786 Kanalani Street, #14  
Kailua-Kona, HI 96740  
(808) 329-6881

### Kauai National Wildlife Refuge

Guided tours and teacher guides that focus on environmental education are available upon request. Students accompanied by their teachers, parents, or group leaders are provided with education and interpretation of Hawaiian wildlife from volunteers and staff. A manual has also been developed for K-6 classroom teachers with curriculum activities for use in the classroom and onsite locations. This program serves 4,000 to 5,000 students annually. Workshops are held at the complex to train educators how to use the environmental education manual developed for use on the refuge.

Richard Voss, Project Leader  
Kauai NWR Complex  
PO Box 87  
Hanamaulu, HI 96715  
(808) 828-1413 / Fax: (808) 828-1413

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Colleen Murakami, Project WILD Coordinator  
Department of Education  
189 Lunalilo Home Road  
Honolulu, HI 96825  
(808) 396-2572 / Fax: (808) 548-5390

Randy Honebrink, Project WILD Coordinator  
Hawaii Division of Aquatic Resources  
1151 Punchbowl Street  
Honolulu, HI 96813  
(808) 587-0111 / Fax: (808) 587-0115

### Pu'uho'u O Honauuau National Historic Park

The program Living in Harmony with the Land and the Sea invites participants to identify the relationship of animals and plants with Hawaii's conservation laws and practices. The goal is to expand environmental awareness.

Gordon B. Joyce, Chief  
Pu'uho'u O Honauuau NHP  
Interpretation and Resources Management  
PO Box 129  
Honauuau, HI 96726  
(808) 328-2326 or 328-2288 / Fax: (808) 328-9485

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Dayton Nakanelua, Director  
Hawaii Department of Labor and Industrial Relations  
830 Punchbowl Street, Room 320  
Honolulu, HI 96813  
(808) 586-8844 / Fax: (808) 586-9099

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and cross-talk sessions to exchange ideas on promoting aerospace education.

Hank Verbais, AWP-4  
Program Manager, External Services  
FAA Western Pacific Region  
PO Box 92007 WPC  
Los Angeles, CA 90009  
(310) 725-3802 / Fax: (310) 536-8404

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Veronica Balsa, Director  
Aviation Education Resource Center  
Mid-Pacific Institute  
Aviation/Space Science  
2445 Kaala Street  
Honolulu, HI 96822  
(808) 973-5000

Rodney M. Kuba  
Airports Division  
Aviation Education Resource Center  
State of Hawaii Department of Transportation  
Honolulu International Airport  
Gate 29, EWA Service Court Road  
Honolulu, HI 96819-1898  
(808) 836-6542

## ► Environmental Protection Agency (EPA)

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## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Ames Research Center  
Educator Resource Center, MS 253-2  
Moffett Field, CA 94035-1000  
(650) 604-3574

### NASA Field Centers

Each field center has an educational programs officer who is responsible for pre-college education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Garth A. Hull, Special Assistant  
Educational Programs  
NASA Ames Research Center, MS 204-12  
Moffett Field, CA 94035  
(650) 604-5543

### NASA Regional Educator Resource Center

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Barbers Point Elementary School  
NASA Regional Educator Resource Center  
3001 Boxer Road  
Barbers Point Naval Air Station  
Kapolei, HI 96707-2103  
(808) 673-7410

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Hawaii Space Grant Consortium  
Department of Planetary Geosciences  
University of Hawaii at Manoa  
2525 Correa Road  
Honolulu, HI 96822  
(808) 956-3147

## Republic of the Marshall Islands

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Liz Kumabe  
Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
(808) 956-2860 / Fax: (808) 956-2858

### ► Department of Education (ED)

#### Pacific Mathematics and Science Regional Consortium

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Paul Dumas, Program Director  
Pacific Mathematics and Science Regional Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://w3.prel.hawaii.edu/programs/math-science.html>

#### Pacific Resources for Education and Learning (PREL)

PREL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John W. Kofel, Executive Director  
PREL  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599

#### Pacific and Southwest Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: [clmer@csulb.edu](mailto:clmer@csulb.edu)  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Honorable Justin deBrum, Minister of Education  
PO Box 3  
Majuro, MH 96960  
(692) 625-3345 / Fax: (692) 625-3394

## Republic of Palau

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Liz Kumabe  
Hawaii Sea Grant  
University of Hawaii  
1000 Pope Road, MSB 225  
Honolulu, HI 96822  
(808) 956-2860 / Fax: (808) 956-2858

### ► Department of Education (ED)

#### Pacific Mathematics and Science Regional Consortium

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

BEST COPY AVAILABLE



Paul Dumas, Program Director  
Pacific Mathematics and Science Regional  
Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://w3.prel.hawaii.edu/programs/math-science.html>

**Pacific Resources for Education and Learning (PREL)**

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John W. Kofel, Executive Director  
PREL  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813  
(808) 533-6000 / Fax: (808) 533-7599  
<http://prel-oahu-1.prel.hawaii.edu/>

**Pacific and Southwest Technology in Education Consortium (PSR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: [clmer@csulb.edu](mailto:clmer@csulb.edu)  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor, R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: [cconnor@inet.ed.gov](mailto:cconnor@inet.ed.gov)

**► Department of Labor (DOL)**

**Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Josephine Ulengchong, Executive Director  
Combined PIC/SJTCC  
PO Box 100  
Koror, PW 96940  
(680) 488-2513 / Fax: (680) 488-5699

**► Environmental Protection Agency (EPA)**

**EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Stacey Benfer, Environmental Education Coordinator  
Environmental Protection Agency  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1586 / Fax: (415) 744-1605

**The President's Environmental Youth Awards (PEYA) Program**

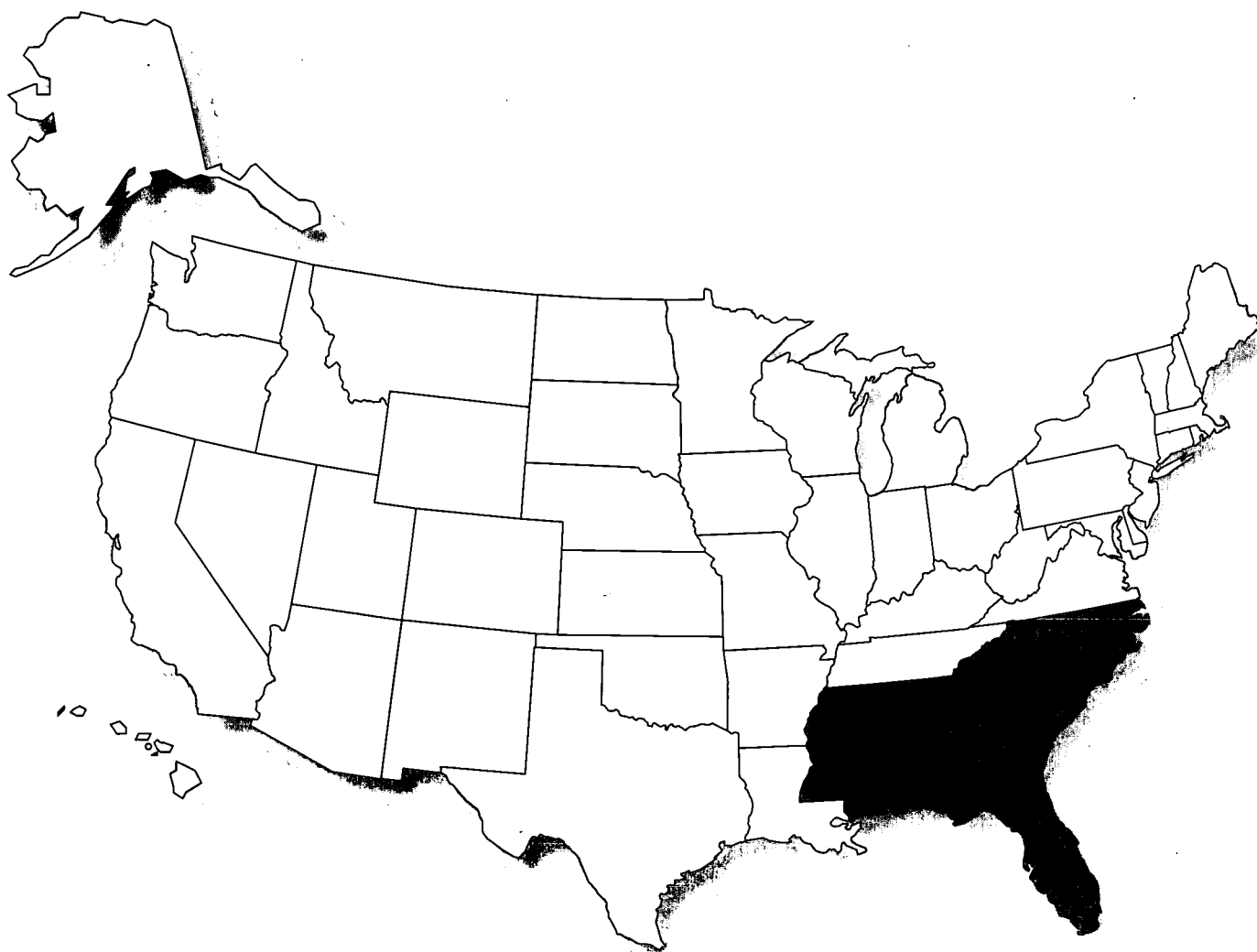
Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 9  
75 Hawthorne Street (E2)  
San Francisco, CA 94105  
(415) 744-1161 / Fax: (415) 744-1072

- ▶ Alabama
- ▶ Florida
- ▶ Georgia
- ▶ Mississippi
- ▶ North Carolina
- ▶ South Carolina

# Southeast Region

▶ **Eisenhower Consortium for Mathematics  
and Science Education at SERVE**



# Eisenhower Consortium for Mathematics and Science Education at SERVE

**Southeast  
Region**

**T**he Eisenhower Consortium for Mathematics and Science Education at SERVE (South Eastern Regional Vision for Education) is one of 10 Eisenhower Mathematics and Science Regional Consortia established by the U.S. Department of Education. The National Network of Eisenhower Regional Consortia and the Eisenhower National Clearinghouse for Mathematics and Science Education (ENC) form a coordinated, field-based national infrastructure to promote systemic educational reform. The consortium, a coalition of educators, business leaders, governors, and policymakers, promotes systemic reform in mathematics and science education in its region. In collaboration with other stakeholders in the region, the consortium works to expand and enhance mathematics and science education by providing technical assistance, linking and coordinating resources, using technology, and disseminating information about successful practices.

The consortium's goal is to empower educators in the Southeast to provide quality mathematics and science programs for all students. In keeping with the consortium's philosophy of decentralizing technical assistance through the use of field offices, three of the consortium's program specialists are housed in offices outside of Florida (Greensboro, NC; Atlanta, GA; and Cleveland, MS).

Collaboration and coordination are the foundation for the consortium's work, and since its inception, the consortium has been involved in laboratory and consortium network programs. The consortium provided leadership in the identification of exemplary mathematics and science programs for the national network's Successful Practices effort. Also, the consortium led the task force that compiled and published *An Equity Resource Guide for Mathematics and Science Education*, now available online (<http://equity.enc.org/>) and on CD-ROM. At the regional level, the consortium continues to seize opportunities to work with a variety of stakeholders to carry out its mission. For example, mathematics and science specialists, state- and district-level administrators, and Eisenhower State Grant program coordinators were involved in the identification of exemplary programs and practices.

## Consortium Programs

To more effectively disseminate information concerning exemplary programs and to deliver focused technical assistance, the consortium has developed an annual institute and a technical assistance academy.

- ▶ **The Promising Practices Leadership Institute** showcases the talents and enhances the leadership skills of past Promising Practices award winners, National Science Foundation (NSF) projects, and other exemplary programs from across the region and nation. District- or school-level teams from each of the six SERVE states are invited to participate in sessions that highlight these programs. The sessions are intended to equip teachers with skills and knowledge needed to develop strategies to implement new programs in their schools.
- ▶ **The Technical Assistance Academy for Mathematics and Science Services (TAAMSS)** is the cornerstone of the consortium's delivery of region-wide technical assistance. The academy's goal is to provide high-quality professional development to a cadre of staff developers and lead teachers from each state. These participants then function as regional resources and assist other teachers and educators to develop strategies for improving the teaching of mathematics, science, and technology. Academy participants are affiliated with a variety of education agencies including universities, State and Urban Systemic Initiatives, Regional Service Centers, and local districts, especially those recognized as being in "critical" need. The academy provides training for an array of topics, including technology, facilitative leadership for change, alternative assessment, curriculum frameworks, implementing national standards, and grant writing.

The consortium also focuses on enhancing the work of others by linking and coordinating resources. In this role, the consortium contributes support to established programs and agencies.

Examples of this kind of activity include the following:

- ▶ **The South Eastern Consortium for Minorities in Engineering (SECME) Summer Institute** provides an opportunity for teachers to learn new methods to enrich their instructional programs. For example, the teachers spend a significant portion of their time doing hands-on projects in engineering laboratories and in industrial/manufacturing settings. Also, the teachers attend sessions that focus on the required academic preparation for students pursuing engineering and receive information regarding the current opportunities in the engineering profession. SECME combines many of the components needed to bring about equity in mathematics and science education.
- ▶ **The Technology Institute at Fayetteville State University** is a week-long summer institute for teachers and professors linked to the Historically Black Colleges and Universities (HBCU) network. Participants from across the Southeast and the nation are introduced to interactive and calculator-based methods for engaging students in upper-level mathematics courses such as trigonometry and calculus. Using the Internet as a resource is also stressed.

## Publications

The Eisenhower Consortium at SERVE distributes SERVE catalogs and publications as well as publications from the U.S. Department of Education, ENC, and NSF. The consortium also distributes its own publications. *Action Research: Perspectives from Teachers' Classrooms and Science in the Elementary School Classroom: Portraits of Action Research* are monographs consisting of studies conducted and reported by middle school science teachers for Florida State University's Science FEAT (For Early Adolescence Teachers) program. *Policy Brief: The Need for Improved Mathematics and Science Education* depicts the status of mathematics and science education in the region and the need for improvement. A newsletter, *Common Denom-*

## Alabama

*inator*, is published twice a year with a special focus for each issue; past topics have included systemic reform, equity, and informal science.

**Francena D. Cummings**  
*Director*

**Karen Charles**  
*Program Specialist (NC/SC)*

**Cheryl Cliett**  
*Program Specialist (FL)*

**John Roberts**  
*Program Specialist (AL/MS)*

**Michael Vigliano**  
*Research Associate*

**Jane Griffin**  
*Evaluation Specialist*

Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

## Alabama

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Wilma J. Ruffin, Extension Assistant  
Director  
4-H Youth Development Programs  
101 Duncan Hall  
Auburn, AL 36849  
(334) 844-5540 / Fax: (334) 844-5544  
E-mail: [wruffin@acenet.auburn.edu](mailto:wruffin@acenet.auburn.edu)

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Jane Alice Lee  
2101 Bell Road  
Montgomery, AL 36117  
(334) 240-7124

Brenda Summerlin  
Department of Agriculture and Industries  
PO Box 3336  
Montgomery, AL 36193  
(334) 240-7124

### ► Department of Commerce (DOC)

#### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

#### Weeks Bay National Estuarine Research Reserve

The reserve offers onsite and outreach education programs.

Margaret Helcombe, Education Coordinator  
Weeks Bay National Estuarine Research Reserve  
Marine Resources Division  
Department of Economic and Community Affairs  
11300 U.S. Highway 98  
Fairhope, AL 36532  
(334) 928-9792 / Fax: (334) 928-1792  
E-mail: [weeksbay@gulftel.com](mailto:weeksbay@gulftel.com)

### ► Department of Defense (DoD)

#### Science and Engineering Apprentice Program

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near this participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer. Redstone Arsenal sponsors two separate operations.

Marilyn Lewis  
Army Test, Measurement and Diagnostic  
Equipment Activity (TMDE-A)  
Redstone Arsenal, AL 35898-5400  
(205) 876-3712

#### U.S. Army Aviation Museum

Museum displays depict the transformation of aviation technology from 1918 to the present. Guided tours are available through advance arrangements.

U.S. Army Aviation Museum  
PO Box 610620  
Fort Rucker, AL 36362-0610  
(334) 255-3036

### ► Department of Education (ED)

#### Eisenhower Consortium for Mathematics and Science Education at SERVE

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Francena Cummings, Director  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

#### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Tyson Thompson  
Eisenhower Professional Development Program  
Alabama Department of Education  
5336 Gordon Persons Building  
50 North Ripley Street  
Montgomery, AL 36130-3901  
(334) 242-8199 / Fax: (334) 242-0496

#### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.



Elizabeth C. French  
Eisenhower Professional Development  
Program  
Alabama Commission on Higher Education  
100 North Union Street  
Montgomery, AL 36104-3702  
(334) 242-2179 / Fax: (334) 242-0270

### **Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: dholznag@serve.org  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

### **SouthEastern Regional Vision for Education (SERVE)**

SERVE identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John Sanders, Executive Director  
SERVE  
PO Box 5367  
Greensboro, NC 27435  
(910) 334-3211 / Fax: (910) 334-3268  
(800) 755-3277  
<http://www.serve.org/>

SERVE, Alabama  
50 North Ripley Street  
5114 Gordon Person Building  
Montgomery, AL 36130  
(205) 242-9758 / Fax: (205) 242-9708

## **► Department of Energy (DOE)**

### **Adventures in Supercomputing (AiS)**

AiS is designed to foster and enhance the participation of diverse populations of high school students in mathematics, science, and computing.

Barbara G. Summers, Education Program  
Manager  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, MS 6366  
Oak Ridge, TN 37831-6366  
(423) 241-3705 / Fax: (423) 241-6776  
E-mail: summersbg@ornl.gov

### **Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)**

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

## **► Department of the Interior (DOI)**

### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### **Career Oriented Science and Mathematics Integrated Course (COSMIC)**

This three-week summer program is designed to encourage girls in exploring future careers in the fields of science and math. Participants meet women professionals in various fields.

Gail B. Rainey, Physical Oceanographer  
1201 Elmwood Park Boulevard  
New Orleans, LA 70123  
(504) 736-2792 / Fax: (504) 736-2610

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Gulf of Mexico Outer Continental Shelf  
Region  
Minerals Management Service  
Office of Public Affairs  
1201 Elmwood Park Boulevard, MS 5000  
New Orleans, LA 70123-2394  
(504) 736-2595 / Fax: (504) 736-2459  
(800) 200-GULF

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Jerry deBin, Project WILD Coordinator  
Alabama Division of Game and Fish  
64 North Union Street  
Montgomery, AL 36130  
(205) 242-3623 / Fax: (205) 242-3032

### **Russell Cave National Monument**

Programs include guided tours that focus on the cave shelter and the culture of prehistoric Indians. Demonstrations of the prehistoric tools and weapons are also available.

David Walker, Park Guide  
Russell Cave National Monument  
3729 County Road 98  
Bridgeport, AL 35740  
(256) 495-2672 / Fax: (256) 495-9220  
E-mail: cave@traveller.com

### **Wheeler National Wildlife Refuge**

Refuge programs include guided tours and lectures that focus on wildlife management. Teacher workshops include: Project WILD, Aquatic WILD, Project Learning Tree, and Project Learning Tree Facilitator's Workshop. The workshops allow environmental education to be taught to teachers through hands-on activities. The workshops help teachers investigate environmental issues and encourage them to pass these learning experiences on to their students. Participating teachers receive college credit for attendance and completion of the workshops.

Rick Huffines, Supervisory Ranger  
Wheeler NWR  
Route 4, Box 250  
Decatur, AL 35603  
(205) 350-6639 / Fax: (205) 340-9728  
E-mail: r4rw\_al.wlr@mail.fws.gov

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Raymond A. Clenney, Assistant Chief  
Workforce Development Division  
Alabama Department of Economic and  
Community Affairs  
401 Adams Avenue  
PO Box 5690  
Montgomery, AL 36103-5690  
(334) 242-5300 / Fax: (334) 242-5855

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Megan Johnson, Director  
Aviation Education Resource Center  
Alabama Aviation and Technical College  
Learning Resource Center  
PO Box 1209  
Ozark, AL 36361  
(205) 774-5113

Michele R. Walker, Programming  
Coordinator  
Aviation Education Resource Center  
University of North Alabama  
UNA Box 5145  
Florence, AL 35632-0001  
(205) 760-4623

Gary W. Kiteley, Executive Director  
Aviation Education Resource Center  
University Aviation Association  
3410 Skyway Drive  
Opelika, AL 36801  
(205) 844-2434

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education  
Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional

office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

U.S. Space and Rocket Center  
NASA Educator Resource Center  
for Marshall Space Flight Center  
One Tranquility Base  
Huntsville, AL 35758  
(205) 544-5812

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jim Pruitt, Director  
Education Programs Office  
NASA Marshall Space Flight Center  
Mail Code CL01  
Huntsville, AL 35812-0001  
(205) 544-8800

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Alabama Space Grant Consortium  
University of Alabama in Huntsville  
Materials Science Building, Room 205  
Huntsville, AL 35899  
(205) 890-6028

# Florida

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Nadine Hackler, Acting Assistant Dean  
4-H Youth Development Program  
Department of Family, Youth and Community Science  
University of Florida  
PO Box 110310  
Gainesville, FL 32611-0225  
(352) 846-0996 / Fax: (352) 846-0999  
E-mail: rnh@gnv.ifas.ufl.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Doty Wenzel  
Black Building, Room 206  
545 East Tennessee  
Tallahassee, FL 32308  
(850) 487-4973 / Fax: (850) 922-2189

## ► Department of Commerce (DOC)

### Apalachicola Bay National Estuarine Research Reserve

The reserve offers onsite and outreach education programs, including natural history field trips and classroom estuarine curricula.

Erik Lovestrand, Education Coordinator  
Apalachicola Bay National Estuarine Research Reserve  
261 Seventh Street  
Apalachicola, FL 32320  
(850) 653-8063 / Fax: (850) 653-2297  
E-mail: elovestrand@ocean.nos.noaa.gov

### Atlantic Oceanographic and Meteorological Laboratory

The laboratory manages a speaker's bureau for in-school presentations and also supports

a partnership program with local schools. It provides opportunities for students to participate in an executive intern program, summer intern program, and laboratory research program.

Howard A. Friedman  
Atlantic Oceanographic and Meteorological Laboratory  
National Oceanic and Atmospheric Administration  
Hurricane Research Division  
4301 Rickenbacker Causeway, Virginia Key  
Miami, FL 33149  
(305) 361-4400 / Fax: (305) 361-4402  
E-mail: friedman@aoml.erl.gov

### Florida Keys National Marine Sanctuary

The sanctuary offers onsite, in-the-water interpretive programs for students of all ages. In-school presentations may also be arranged. This sanctuary manages Key Largo and Looe Key education programs. Brochures about coral reef ecosystems are available.

Laura Urian, Education Coordinator  
Florida Keys National Marine Sanctuary  
PO Box 1083  
Key Largo, FL 33037  
(305) 852-7717 / Fax: (305) 853-0877  
E-mail: lurian@ocean.nos.noaa.gov

### Marine Fisheries Southeast Regional Office

This office supports a partnership program with local schools and coordinates a speaker's bureau that provides marine biologists for classroom visits.

Dan Furlong, Deputy Regional Director  
National Marine Fisheries Service, Southeast Region  
National Oceanic and Atmospheric Administration  
9721 Executive Center Drive North  
St. Petersburg, FL 33702-2432  
(813) 570-5301 / Fax: (813) 570-5300

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

### **Rookery Bay National Estuarine Research Reserve**

In addition to workshops for teacher and environmental professionals, the reserve also provides field studies, onsite boat tours for students, and outreach programs.

Ginger Hinchcliff, Education Coordinator  
Rookery Bay National Estuarine Research Reserve  
10 Shell Island Road  
Naples, FL 33962  
(941) 417-6310 / Fax: (941) 417-6315  
E-mail: hinchcliff\_g@dep.state.fl.us

### **► Department of Defense (DoD)**

#### **Air Force Armament Museum**

The museum displays aircraft and the advancement of technology in missile and rocket science. Exhibits include missiles, launching and targeting systems, and the historical aspects of rocket science.

Air Force Armament Museum  
100 Museum Drive  
Eglin Air Force Base, FL 32542-5000  
(850) 882-4062

#### **National Museum of Naval Aviation**

The museum is dedicated to the aviation history of the Navy, the Marine Corps, and the Coast Guard. Exhibits include an actual bridge and flight deck of an aircraft carrier, as well as numerous exhibits that focus on the technology of naval aeronautics. The museum has 250,000 square feet of display space and more than 100 actual aircraft on display. Tours are available upon request.

National Museum of Naval Aviation  
1750 Radford Boulevard, Suite C  
Pensacola, FL 32508-5402  
(850) 452-3604

### **► Department of Education (ED)**

#### **Eisenhower Consortium for Mathematics and Science Education at SERVE**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Francena Cummings, Director  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Peggy Primicerio  
Eisenhower Professional Development Program  
Florida Department of Education  
Florida Education Center, Suite 522  
325 West Gaines Street  
Tallahassee, FL 32399-0400  
(850) 488-6547 / Fax: (850) 921-9059

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Debra Armenti Feldt  
Eisenhower Higher Education Program  
Florida Department of Education  
325 West Gaines Street  
Tallahassee, FL 32399-0400  
(850) 488-5058 / Fax: (850) 413-7698

#### **Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: dholznag@serve.org  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

#### **SouthEastern Regional Vision for Education (SERVE)**

SERVE identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John Sanders, Executive Director  
SERVE  
PO Box 5367  
Greensboro, NC 27435  
(910) 334-3211 / Fax: (910) 334-3268  
(800) 755-3277  
<http://www.serve.org/>

SERVE, Florida  
345 South Magnolia Drive, Suite D-23  
Tallahassee, FL 32301-2950  
(904) 671-6000 / Fax: (904) 671-6010  
(800) 352-6001

### **► Department of Energy (DOE)**

#### **Pinellas Plant**

The plant sponsors numerous educational outreach programs. The DOE Science Bowl is a major event that encourages high school students to compete and test their science knowledge. Regional winners are provided an opportunity to compete in a national bowl. National winners move to the ultimate level when they compete in an international setting. The event requires the participation of more than 100 Pinellas Plant employees. Several employees are mentors and tutors throughout the Pinellas Plant school system. Employees volunteer year round for special events at schools, including science fairs and career days. Significant financial support is provided to the Pinellas County Education Foundation (PCEF), a fundraising organization for the school system. PCEF provides scholarships to underprivileged students and supports those programs that go above and beyond the standard curriculum.

Shirley Cheatham, Manager, Public Affairs  
Pinellas Plant  
Martin Lockeheed Specialty Components  
PO Box 2908  
Largo, FL 34649-2908  
(813) 541-8263 / Fax: (813) 541-8778



## ► Department of the Interior (DOI)

### Arthur R. Marshall Loxahatchee and Hobe Sound National Wildlife Refuges

The reserves offer a 26-page manual designed to help teachers introduce their students to these refuges, the National Wildlife Refuge System, and the Northern Everglades habitat. In addition, the manual includes several curriculum ideas for teachers of elementary students. Information is also provided on planning a visit, available facilities, and additional references.

Serena Rinker, Supervisory Interpretive Specialist  
Arthur R. Marshall Loxahatchee NWR and Hobe Sound NWR  
10216 Lee Road  
Boynton Beach, FL 33437  
(561) 732-3684 / Fax: (561) 369-7190

### Biscayne National Park

The park operates the Elliott Key Environmental Education Center, which offers environmental education programs for students. Teachers must attend a workshop prior to participating. The curriculum-based program allows participants to observe and study the interrelationships between a marine and terrestrial environment. The program includes a three-day, two-night field trip.

Kelly Strnad, Environmental Education Coordinator  
Biscayne National Park  
PO Box 1369  
Homestead, FL 33090  
(305) 230-1144, ext. 3035 / Fax: (305) 230-1190

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Canaveral National Seashore

The seashore offers environmental education, as well as natural and cultural history programs in both the North and South Districts of the park. Environmental education programs include:

- **Beach Discovery and Mosquito Lagoon Discovery** programs introduce K-3 grade students to the beach and the shoreline of Mosquito Lagoon.

► **Junior Ranger Programs** consist of multiple activities, including Lagoon Experience, Turtle Mound, Crabbing and Clamming at Canaveral, and a variety of other activities. By attending three educational activities, picking up a bag of trash on the beach, and doing a special project that demonstrates what they learned at the park, children between the ages of 6-12 may become Junior Rangers.

► **Lagoon Search, Seaside Discovery, and Dynamic Dunes** introduce students to three different habitats within the seashore. Through hands-on activities, children learn the significance of Canaveral National Seashore and the barrier island habitats.

► **PARKnership** service/learning programs allow students to participate in activities at the seashore and also perform a volunteer project that helps the park. Park staff and teachers work closely to develop in-school orientation programs and in-park activities and volunteer assignments.

► **Teacher Workshops** allow educators to spend half a day onsite learning how to conduct programs for fourth and fifth grade classes. In this way, educators can assist the park when students participate in the environmental education programs.

► **Turtle Watches** are available to teach the public about the threatened loggerhead sea turtles. Participants visit the beach at night and watch a female loggerhead turtle make a nest and lay her eggs in the sand. Children must be in the third grade and attend with their families.

South District:  
Sandra Himes, Park Ranger  
Canaveral National Seashore  
308 Julia Street  
Titusville, FL 32796  
(407) 867-4077 / Fax: (407) 867-4447

North District:  
Maureen Picard  
Canaveral National Seashore  
7611 South Atlantic Avenue  
New Smyrna Beach, FL 32780  
(904) 428-3384 / Fax: (904) 423-8592

### Career Oriented Science and Mathematics Integrated Course (COSMIC)

This three-week summer program is designed to encourage girls in exploring future careers in the fields of science and math. Participants meet women professionals in various fields.

Gail B. Rainey, Physical Oceanographer  
1201 Elmwood Park Boulevard  
New Orleans, LA 70123  
(504) 736-2792 / Fax: (504) 736-2610

### Everglades National Park

The park operates six sites that manage environmental education programs, including teacher workshops that offer college or professional credit. Guided tours, lectures, and comprehensive curriculum materials are also available. In the Environmental Education Program, students are introduced to the Everglades ecosystem through hands-on, curriculum-based activities. Students and teachers can participate in a variety of programs (ranging from a four-hour day trip to a three-day camping experience). Teacher workbooks and activity guides are available. A workshop is mandatory for teachers.

Sandy Dayhoff, Outreach Coordinator  
Everglades National Park  
40001 State Road 9336  
Homestead, FL 33034  
(305) 242-7753 / Fax: (305) 242-7728

### First Coast Envirothon

High school students from local counties compete in an outdoor quiz bowl. Teams of students are trained and tested in five areas: soils, water, forestry, wildlife, and current environmental issues. Winning teams compete in state and national programs.

Linda D. Finger, Wildlife Biologist  
Jacksonville Field Office  
6620 Southpoint Drive South, Suite 310  
Jacksonville, FL 32216  
(904) 232-2580 / Fax: (904) 232-2404

### Fort Caroline National Monument

The monument offers onsite programs for students and in-school presentations during the school year. Programs emphasize natural resource issues found in the school curricula.

Division of Interpretation  
Fort Caroline National Monument  
12713 Fort Caroline Road  
Jacksonville, FL 32225  
(904) 221-5568

### Gulf Islands National Seashore

Programs at the seashore focus on environmental education and include nature walks, ranger lectures, and other activities. Teacher guides are also available upon request. The Barrier Island Ecology Talk stresses barrier island dynamics, ecology, and importance.

H.O. Simpson, Florida District Interpreter  
Gulf Islands NS  
1801 Gulf Breeze Parkway  
Gulf Breeze, FL 32561  
(904) 934-2629 / Fax: (904) 932-9654

### **J.N. "Ding" Darling National Wildlife Refuge**

Guided tours and curriculum materials are available to educators at the refuge.

Public Use Manager  
J.N. "Ding" Darling NWR  
One Wildlife Drive  
Sanibel, FL 33957  
(941) 472-1100 / Fax: (941) 472-4061

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Gulf of Mexico Outer Continental Shelf Region  
Minerals Management Service  
Office of Public Affairs  
1201 Elmwood Park Boulevard, MS 5000  
New Orleans, LA 70123-2394  
(504) 736-2595 / Fax: (504) 736-2459  
(800) 200-GULF

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Tim Roach, Project WILD Coordinator  
Florida Game and Freshwater Fish Commission  
620 South Meridian Street  
Tallahassee, FL 32399  
(850) 488-4677 / Fax: (850) 488-6988

### **St. Marks National Wildlife Refuge**

The refuge offers guided tours, teacher workshops, teacher guides, and in-class presentations. In the Environmental Education Program, students from roughly a 100-mile radius come to the refuge to study its ecosystems, especially the freshwater and saltwater ecosystems. Also available is an educator guide and lesson plans for hands-on activities that can be conducted offsite.

Robin Will, Wildlife Interpretive Specialist  
St. Marks NWR  
PO Box 68  
St. Marks, FL 32355  
(904) 925-6121 / Fax: (904) 925-6930

## **► Department of Labor (DOL)**

### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Doug Jamerson, Secretary  
Florida Department of Labor and Employment Security  
Hartman Building, Suite 303  
2012 Capital Circle, Southeast  
Tallahassee, FL 32399-2152  
(850) 922-7021 / Fax: (850) 488-8930

## **► Department of Transportation (DOT)**

### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

Larry Hedman, CMD-240  
FAA Aviation Education Representative  
Aviation Education Resource Centers  
Center for Management Development  
4500 Palm Coast Parkway SE  
Palm Coast, FL 32137  
(904) 446-7126

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Patricia Fleener-Ryan  
Aviation Education Resource Center  
Embry-Riddle Aeronautical University  
AvEd Teacher Resource Center  
Daytona Beach, FL 32114  
(904) 226-6499

J. Anthony Sharp, Director  
Aviation Education Resource Center  
Florida Memorial College  
Division of Airway Science  
15800 Northwest 42nd Avenue  
Miami, FL 33054  
(305) 623-1440

Ballard M. Barker, Head  
Aviation Education Resource Center  
Florida Institute of Technology  
Department of Aviation Studies  
The School of Aeronautics  
150 West University Boulevard  
Melbourne, FL 32901-6988  
(407) 768-8000, ext. 8120

Larry Hedman, CMD-240  
Center for Management Development  
4500 Palm Coast Parkway SE  
Palm Coast, FL 32137  
(904) 446-7126

## **► Environmental Protection Agency (EPA)**

### **Environmental Research Laboratory**

The laboratory supports the Educational Research Center of the University of West Florida in an effort to build and enhance envi-

ronmental education at the state and local levels. Programs for teachers and curriculum materials are being developed.

Betty Jackson  
U.S. Environmental Protection Agency  
Environmental Research Laboratory/ORD  
Sabine Island  
Gulf Breeze, FL 32561-3999  
(904) 934-9200

### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education  
Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including

laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA John F. Kennedy Space Center  
Educator Resource Center  
Mail Code ERC  
Kennedy Space Center, FL 32899  
(407) 867-4090

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Steve Dutczak, Chief  
Education Services Branch  
NASA John F. Kennedy Space Center  
Mail Code AB-C  
Kennedy Space Center, FL 32899-0001  
(407) 867-4444

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Florida Space Grant Consortium  
Department of Astronomy  
222 Space Sciences Research Building  
University of Florida  
Gainesville, FL 32611-2055  
(352) 392-6750

### **► National Science Foundation (NSF)**

#### **Urban Systemic Initiatives (USI) Program**

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Anna-Marie Lopez  
Dade County Public Schools  
1450 NE 2nd Avenue, Room 931  
Miami, FL 33132  
(305) 995-2921 / Fax: (305) 995-1916

## **Georgia**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Roger C. Ryles, Jr., State 4-H Program  
Leader  
State 4-H Office  
Hoke Smith Annex  
University of Georgia  
Athens, GA 30602  
(706) 542-8804 / Fax: (706) 542-8845  
E-mail: cdc4H@uga.cc.uga.edu

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Donna Reynolds  
Georgia Farm Bureau  
PO Box 7068  
Macon, GA 31298  
(912) 474-8411

### **► Department of Commerce (DOC)**

#### **Gray's Reef National Marine Sanctuary**

The sanctuary's interpretive center is located at the University of Georgia Aquarium on Skidaway Island. The center offers classrooms, laboratories, exhibits, touch tanks, and lecture series for educators.

Sarah Mitchell, Education Coordinator  
Gray's Reef National Marine Sanctuary  
10 Ocean Science Circle  
Savannah, GA 31411  
(912) 598-2345 / Fax: (912) 598-2367  
E-mail: smitchell@ocean.nos.noaa.gov

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses

are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

### **Sapelo Island National Estuarine Research Reserve**

The reserve offers education tours for school groups, including special archaeological and natural history tours. Reservations are required.

Fred Hay, Education Coordinator  
Sapelo Island National Estuarine Research Reserve  
Georgia Department of National Resources  
PO Box 15  
Sapelo Island, GA 31327  
(912) 485-2251 / Fax: (912) 485-2141  
E-mail: fhay@ocean.nos.noaa.gov

### **► Department of Defense (DoD)**

#### **National Science Center**

With its multifaceted programs in science and mathematics, the center offers workshops and camps for students, a discovery center with opportunities for classroom visits, and a teacher resource center that provides science, math, electronics, and computer materials for use in the classroom. Portable planetariums are available on loan to teachers who have been certified through the center's comprehensive training program.

National Science Center  
Attention: ATZH-NSC-D  
Building 25722  
Fort Gordon, GA 30905-5689  
(706) 821-0200

#### **Naval Submarine Base, Kings Bay**

The base participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations throughout the Kings Bay area.

COMSUBGRU TEN  
Commander  
Submarine Group Ten  
1050 USS Georgia Avenue  
Kings Bay, GA 31547-2609  
(912) 673-4559

#### **Science and Engineering Apprentice Program**

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience

for high school students attending school near this participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer.

Merrilee Norman  
Army Directorate of Information Management  
Ft. McPherson, GA 30330-5000  
(404) 464-5335

### **U.S. Army Signal Corps and Fort Gordon Museum**

The evolution of communications technology is the primary focus of the museum. Tours and lectures are available upon request.

U.S. Army Signal Corps and Fort Gordon Museum  
Attention: ATZH-SM  
Building 36305  
Fort Gordon, GA 30905-5273  
(706) 791-3856

### **► Department of Education (ED)**

#### **Eisenhower Consortium for Mathematics and Science Education at SERVE**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Francena Cummings, Director  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Dick Grover and Elaine Lunsford  
Eisenhower Professional Development Program  
Georgia Department of Education  
Federal Program Division  
1852 Twin Towers East  
Atlanta, GA 30334  
(404) 657-8335 or 657-8330  
Fax: (404) 651-9416

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Russell Yeahy and Edward J. Davis  
Eisenhower Professional Development Program  
University of Georgia  
315 Aderhold Hall  
Athens, GA 30602  
(706) 542-4047 / Fax: (706) 542-4042

### **Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: dholznag@serve.org  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

### **SouthEastern Regional Vision for Education (SERVE)**

SERVE identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John Sanders, Executive Director  
SERVE  
PO Box 5367  
Greensboro, NC 27435  
(910) 334-3211 / Fax: (910) 334-3268  
(800) 755-3277  
<http://www.serve.org/>



SERVE, Georgia  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 577-7737 / Fax: (404) 577-7812  
(800) 659-3204

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Chattahoochee River National Recreation Area

Programs include nature walks, ranger lectures, and activities that focus on environmental education. The Chattahoochee Geosphere Center, a cooperative education facility, also offers teacher workshops. Teacher guides are available upon request.

Division of Interpretation  
Chattahoochee River National Recreation  
Area  
1978 Island Ford Parkway  
Dunwoody, GA 30350  
(404) 399-8070

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Offshore Minerals Management Technical  
Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

Office of Communications and Governmental  
Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

### Piedmont National Wildlife Refuge

Teacher workshops on environmental education are available at the refuge. Scheduled tours can be arranged upon request.

Public Use Manager  
Piedmont National Wildlife Refuge  
Route 1, Box 670  
Round Oak, GA 31038  
(912) 986-5411 / Fax: (912) 986-9646

### Pinckney Island National Wildlife Refuge

In Barrier Island Ecology, University of Georgia instructors and U.S. Fish and Wildlife Service volunteers lead groups on walking tours of a barrier island. The outdoor ecology classes focus on the barrier island ecosystem, with additional instruction provided in management of a pristine maritime forest habitat.

Marsh Meander/Maritime Woods Walk are alternate programs focusing on the salt marsh ecology of the Carolina lowcountry and the hammocks/maritime woodlands prevalent on Pinckney Island. Students are instructed in the value of marshland and coastal islands as buffer zones protecting the mainland during violent storms. Also covered is the richness of wildlife sustained in this coastal zone, with an emphasis on bird identification.

Patricia E. Metz, Refuge Ranger  
Pinckney Island NWR  
Savannah Coastal Refuges  
Parkway Business Center, Suite 10  
Business Center Drive  
Savannah, GA 31405  
(912) 652-4415 / Fax: (912) 652-4385

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Ken Riddleberger, Project WILD  
Coordinator  
Georgia Wildlife Resources Division  
2111 Highway 278 SE  
Social Circle, GA 30279  
(706) 557-3035 / Fax: (706) 557-3030

Richard Osorio, Project WILD Coordinator  
Rock Eagle 4-H Center  
350 Rock Eagle Road  
Eatonton, GA 31204  
(706) 485-2831 / Fax: (706) 485-2191

### Warm Springs Regional Fisheries Center

The Aquatic and Fisheries Math Applications program consists of locally developed pre-algebra activities specific to sites on the fish hatchery. Activities include graphic surveying techniques to determine the area of the ponds. Other topics are fisheries statistics, waterflow in a spring, area and volume calculations of fish-rearing containers, and diversity indexes. The center also offers Project WILD/Aquatic WILD and Project Learning Tree Teacher and Youth Leader Workshops,

which are taught onsite at a fish hatchery. Additional training includes a tour and discussion of using the hatchery grounds for outdoor classrooms.

Haile Macurdy, Assistant Hatchery Manager  
Warm Springs Regional Fisheries Center  
Route 1, Box 515  
Warm Springs, GA 31830  
(706) 655-3620 / Fax: (706) 655-9034

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

David B. Poythress, Commissioner  
Georgia Department of Labor  
Sussex Place, Room 600  
148 International Boulevard NE  
Atlanta, GA 30303  
(404) 656-3011 / Fax: (404) 656-2683

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.

- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Viki Dennard, Assistant Principal  
Aviation Education Resource Center  
Conyers Middle School  
335 Sigman Road  
Conyers, GA 30207-3699  
(404) 483-3371

Chuck Nyren  
Aviation Education Resource Center  
East Cobb Middle School  
380 Holt Road  
Marietta, GA 30068  
(404) 971-8397

Joyce Carlton, Director of Education  
Aviation Education Resource Center  
Museum of Aviation at Robins AFB  
PO Box 2469  
Warner Robins, GA 31099  
(912) 926-4242

Anthony Docal, Director  
Southern College of Technology  
Georgia Youth Science and Technology Center  
1100 S Marietta Parkway  
Marietta, GA 30060-2896  
(404) 528-6272

## ► Environmental Protection Agency (EPA)

### Environmental Research Laboratory

The lab offers teacher fellowships, student summer camps, student employment programs, community partnerships, and in-school programs.

Environmental Research Laboratory  
U.S. Environmental Protection Agency  
906 College Station Road  
Athens, GA 30605-2720  
(706) 546-3524

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA John F. Kennedy Space Center  
Educator Resource Center  
Mail Code ERC  
Kennedy Space Center, FL 32899  
(407) 867-4090

### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Steve Dutczak, Chief  
Education Services Branch  
NASA John F. Kennedy Space Center  
Mail Code AB-C  
Kennedy Space Center, FL 32899-0001  
(407) 867-4444

### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Southern Polytechnic State University  
1100 South Marietta Parkway  
Marietta, GA 30060-2896  
(770) 528-6272

### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Georgia Space Grant Consortium  
Georgia Tech  
Department of Aerospace Engineering  
Cherry Street  
Atlanta, GA 30332-0150  
(404) 894-8202

### **► National Science Foundation (NSF)**

### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation. It also encourages development of community infrastructure to

sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Floyd D. Toth  
Valdosta State University  
College of Education  
Valdosta, GA 31698  
(912) 333-5925 / Fax: (912) 333-7167  
E-mail: Fdtoth@valdosta.edu

## **Mississippi**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Leroy Davis, Extension Administrator, 1890  
Alcorn State University  
PO Box 1323  
Lorman, MS 39096  
(601) 877-6136 / Fax: (601) 877-6219  
E-mail: ldavisasu@aol.com

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Clara Bilbo  
Mississippi Farm Bureau  
PO Box 1972  
Jackson, MS 39215-1972  
(601) 977-4824

### **► Department of Commerce (DOC)**

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to

oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

### **► Department of Defense (DoD)**

#### **Opportunities in Coastal Engineering for Academically Talented Students (OCEANS)**

Students explore coastal erosion first-hand on a Gulf of Mexico beach and follow up their discoveries with laboratory and classroom work. Topics include coastal engineering, geometry, surveying, technical writing, career exploration, research methodology, coastal geology, trigonometry, computer graphics, and ethics of engineering. Also included is a three-day coastal engineering hands-on course at the U.S. Army Engineer Waterways Experiment Station.

Stephen Wagner  
U.S. Army Engineer Waterways Experiment Station  
3909 Halls Ferry Road  
Vicksburg, MS 39180  
(601) 634-3000

#### **Science and Engineering Apprentice Program**

This program, supported by DoD and administered by The George Washington University, is designed to provide research experience for high school students attending school near this participating research facility. Each student works with a senior scientist or engineer who acts as a mentor for eight weeks during the summer.

Steve Wagner  
Army Waterways Experiment Station (WES)  
Vicksburg, MS 39180-6199  
(601) 634-3000

Linda Ladner  
Naval Research Laboratory (NRL-S)  
Stennis Space Center, MS 39529-5004  
(601) 688-4754

**BEST COPY AVAILABLE**

## ► Department of Education (ED)

### Eisenhower Consortium for Mathematics and Science Education at SERVE

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Francena Cummings, Director  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Sandra Crowley  
Eisenhower Professional Development Program  
Mississippi Department of Education  
Walter Sillers Building, Suite 1604  
PO Box 771  
Jackson, MS 39205-0771  
(601) 359-2795 / Fax: (601) 359-2587

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Pearl Pennington  
Eisenhower Professional Development Program  
Mississippi Board of Trustees of State Institutions of Higher Learning  
3825 Ridgewood Road  
Jackson, MS 39211  
(601) 982-6482 / Fax: (601) 364-2380

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student

achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: [dholznag@serve.org](mailto:dholznag@serve.org)  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: [Deborah\\_Williams@ed.gov](mailto:Deborah_Williams@ed.gov)

### SouthEastern Regional Vision for Education (SERVE)

SERVE identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John Sanders, Executive Director  
SERVE  
PO Box 5367  
Greensboro, NC 27435  
(910) 334-3211 / Fax: (910) 334-3268  
(800) 755-3277  
<http://www.serve.org/>

SERVE, Mississippi  
Delta State University  
PO Box 3183  
Cleveland, MS 38733  
(601) 846-4384 / Fax: (601) 846-4402  
(800) 326-4548

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Insti-

tute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: [9LC@ornl.gov](mailto:9LC@ornl.gov)

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Bureau of Land Management, Jackson District Office

The office supports the International Science and Engineering Fair by providing one judge annually. The purpose is to evaluate and award prizes to participants who are winners of their respective regional and state science



fairs and to encourage students to pursue scientific excellence.

Lars Johnson, Geologist  
411 Briarwood Drive, Suite 404  
Jackson, MS 39206  
(601) 977-5424 / Fax: (601) 977-5440

### **Career Oriented Science and Mathematics Integrated Course (COSMIC)**

This three-week summer program is designed to encourage girls in exploring future careers in the fields of science and math. Participants meet women professionals in various fields.

Gail B. Rainey, Physical Oceanographer  
1201 Elmwood Park Boulevard  
New Orleans, LA 70123  
(504) 736-2792 / Fax: (504) 736-2610

### **Gulf Islands National Seashore**

Programs at the seashore focus on environmental education and include nature walks, ranger lectures, and other activities. Teacher guides are also available upon request. For example, the *Fourth Grade Activity Guide for Teachers* provides 55 curriculum-based activities to introduce students to the cultural and natural resources of the Gulf Islands. Units include Seashore Stewardship; The Sands of Time; The Value of the Salt Marsh; Seashore Celebrities; Water, Water Everywhere; and Crossroads of the Gulf.

Gail Bishop, Mississippi District Interpreter  
Gulf Islands National Seashore  
3500 Park Road  
Ocean Springs, MS 39564  
(228) 875-0074

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Gulf of Mexico Outer Continental Shelf  
Region  
Minerals Management Service  
Office of Public Affairs  
1201 Elmwood Park Boulevard, MS 5000  
New Orleans, LA 70123-2394  
(504) 736-2595 / Fax: (504) 736-2459  
(800) 200-GULF

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Georgia Spencer, Project WILD Coordinator  
Museum of Natural Science  
111 North Jefferson Street  
Jackson, MS 39202  
(601) 354-7303 / Fax: (601) 354-7227

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Jean Denson, Director  
Mississippi Department of Economic and Community Development  
Employment Training Division  
PO Box 24568  
Jackson, MS 39225-4568  
(601) 949-2234 / Fax: (601) 949-2291

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
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- **National Congress on Aviation and Space Education** is sponsored annually by the

FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

#### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Mark Rice  
Aviation Education Resource Center  
Stringer Aerospace Education Center  
PO Box 68, Old Highway 15  
Stringer, MS 39481  
(601) 649-5566

Harry A. Cooley, Director  
Aviation Education Resource Center  
Jackson State University  
Airway Science Program  
1400 Lynch Street  
Jackson, MS 39217  
(601) 968-2471

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a

nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA John C. Stennis Space Center  
Educator Resource Center  
Building 1200  
Stennis Space Center, MS 39529-6000  
(601) 688-3337

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

David Powe, Manager  
Educational Programs  
NASA John C. Stennis Space Center  
PO Box 508  
Iuka, MS 38852-0508  
(601) 688-1107

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with

planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Choctaw Teacher Enhancement Center  
Route 7, Box 72  
Philadelphia, PA 39350  
(601) 650-9320

NASA Regional Educator Resource Center  
Tri-State Learning Center  
Tishomingo High School  
Highway 72 West  
Iuka, MS 38852  
(601) 423-7454

NASA Regional Educator Resource Center  
Mississippi Delta Community College  
PO Box 668, Highway #3  
Moorehead, MS 38761  
(601) 246-5631, ext. 125

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Mississippi Space Grant Consortium  
125 Old Chemistry Building  
University of Mississippi  
University, MS 38677  
(601) 232-5232

## ► National Science Foundation (NSF)

### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation. It also encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Charles C. Alexander  
University of Mississippi  
Hume Hall 227  
University, MS 38677

# North Carolina

## ► Department of Agriculture (USDA)

### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Michael A. Davis, Assistant Director  
Extension State 4-H Leader  
North Carolina State University  
PO Box 7606  
Raleigh, NC 27695-7606  
(919) 515-2801 / Fax: (919) 515-7812  
E-mail: mdavis@ncsu.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Janice Shepard  
North Carolina Farm Bureau  
PO Box 27766  
Raleigh, NC 27611  
(919) 782-1705 / Fax: (919) 783-3593

### Career Enrichment Program

Program objectives are to familiarize students with agricultural career options, provide summer learning experiences, and develop leadership skills. Activities include lectures, tours to Agricultural Research Service (ARS) laboratories, career seminars, and recreational activities. Student participants must be high school sophomores, juniors, or seniors in the mid-Atlantic states who are interested in science careers and plan to pursue higher education. Scholarships are also awarded to high school seniors and first-year college students. ARS provides funds to Delaware State University, Dover, to sponsor the program.

Student Education Manager  
USDA-ARS  
Office of the Administrator-CRS  
Room 3550 South Building  
1400 Independence Avenue SW  
Washington, DC 20250-0304  
(202) 720-6161 / Fax: (202) 690-0109  
<http://www.ars.usda.gov/afm/asp/student.htm>

## ► Department of Commerce (DOC)

### Monitor National Marine Sanctuary

Located 16 miles off Cape Hatteras, North Carolina, this Civil War ironclad warship lies in 220 feet of water. The site was designated as a national marine sanctuary in 1975.

Dina Hill, Education Coordinator  
Monitor National Marine Sanctuary  
c/o The Mariner's Museum Library  
100 Museum Drive  
Newport News, VA 23606-3798  
(757) 599-3122 / Fax: (757) 591-7353  
E-mail: dhill@ocean.nos.noaa.gov

### National Climatic Data Center

The center publishes meteorological and climatic data that are available to the public for a fee. A catalog listing the products and costs is available.

Jenny Pressley  
National Climatic Data Center  
National Environmental Satellite, Data, and Information Service  
National Oceanic and Atmospheric Administration  
151 Patton Avenue, Room 120  
Asheville, NC 28801-2733  
(704) 271-4258 / Fax: (704) 271-4876

### National Sea Grant College Program, COAST Operation Pathfinder

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Bill Hall  
Delaware Sea Grant  
700 Pilottown Road  
Lewes, DE 19958  
(302) 645-4253 / Fax: (302) 645-4007

### North Carolina National Estuarine Research Reserve

The reserve offers educational services for school groups, interpretive services, and educational curriculum development. A field guide is available.

Susan Lovelace, Education Coordinator  
North Carolina National Estuarine Research Reserve  
PO Drawer 1040  
Beaufort, NC 28516  
(919) 728-2170 / Fax: (919) 728-6273  
E-mail: slovelace@surf.nos.noaa.gov

## ► Department of Education (ED)

### Eisenhower Consortium for Mathematics and Science Education at SERVE

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Francena Cummings, Director  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Linda G. Love  
Eisenhower Professional Development Program  
North Carolina Department of Public Instruction  
301 North Willmington Street  
Raleigh, NC 27601-2825  
(919) 715-1363 / Fax: (919) 715-0517

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Elizabeth A. French  
Eisenhower Mathematics and Science Program  
134 1/2 East Franklin Street, CB #3345  
UNC—Mathematics and Science Education Network  
Chapel Hill, NC 27599-3345  
(919) 966-3256 / Fax: (919) 962-1316

### Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student

achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC—SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: dholznag@serve.org  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

### SouthEastern Regional Vision for Education (SERVE)

SERVE identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John Sanders, Executive Director  
SERVE  
PO Box 5367  
Greensboro, NC 27435  
(910) 334-3211 / Fax: (910) 334-3268  
(800) 755-3277  
<http://www.serve.org/>

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The

program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

## ► Department of Health and Human Services (HHS)

### National Institute of Environmental Health Sciences

The institute supports life sciences education programs.

National Institute of Environmental Health Sciences  
National Institutes of Health  
Office of Institutional Development  
Mail Drop B2-09  
PO Box 12233  
Research Triangle Park, NC 27709  
(919) 541-4265

## ► Department of the Interior (DOI)

### Albermarle-Pamlico Watershed

Environmental educational materials focusing on the watershed are distributed through teacher workshops, environmental education conferences, festivals, and upon request. These

materials cover topics relating to water quality and natural resources in North Carolina's Albermarle and Pamlico Sounds and their watersheds.

John Ellis, Fish and Wildlife Biologist  
Raleigh Ecological Services  
PO Box 33726  
Raleigh, NC 27636-3726  
(919) 856-4520, ext. 26 / Fax: (919) 856-4556

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### Cape Hatteras National Seashore

Guided tours and lectures are offered for students at all grade levels.

Division of Visitor Services  
Cape Hatteras National Seashore  
Route 1, Box 675  
Manteo, NC 27954  
(252) 995-4474

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Celeste Wescott, Project WILD Coordinator  
North Carolina Wildlife Resources  
Commission  
512 North Salisbury Street  
Raleigh, NC 27611  
(919) 733-7123 / Fax: (919) 733-7083

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Susan Perry-Cole, Assistant Secretary  
North Carolina Department of Commerce  
301 North Wilmington Street  
PO Box 29571  
Raleigh, NC 27626-0571  
(919) 733-7979 / Fax: (919) 733-8356

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National



Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Helen Caldwell  
Elizabeth Aviation High School  
1704 Weeksville Road  
Elizabeth City, NC 40212  
(919) 335-3291

Warren Wren  
Wright Brothers National Memorial  
US 158 Bypass  
Kill Devil Hills, NC 27948  
(919) 441-7430

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education  
Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

#### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth orga-

nizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Virginia Air and Space Center  
600 Settlers Landing Road  
Hampton, VA 23669-4033  
(757) 727-0900, ext. 757

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Marchelle Canright, Precollege Officer  
NASA Langley Research Center, MS 400  
Hampton, VA 23681-0001  
(757) 864-3313

#### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
University of North Carolina at Charlotte  
J. Murrey Atkins Library  
Charlotte, NC 28223  
(704) 547-2559

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

North Carolina Space Grant Consortium  
North Carolina State University  
Campus Box 7515  
Raleigh, NC 27695-7515  
(919) 515-5939

### **► National Science Foundation (NSF)**

#### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Wimberly Royster  
Kentucky Science and Technology Council, Inc.  
200 West Vine Street, Suite 420  
Lexington, KY 40507  
(606) 255-3511, ext. 226  
Fax: (606) 259-0986  
E-mail: royster@pop.uky.edu

## **South Carolina**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State

4-H leaders coordinate outreach services and training to all county offices.

Diane G. Smathers, Assistant Director  
4-H Youth Development  
243 Poole Agricultural Center  
PO Box 340315  
Clemson, SC 29634-0315  
(864) 656-2414 / Fax: (864) 656-5723  
E-mail: dsmthrs@clemson.edu

### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Robbie Myers  
South Carolina Ag in the Classroom  
4913 College Lake Drive  
Florence, SC 29506  
(803) 796-6700

### **► Department of Commerce (DOC)**

#### **ACE Basin National Estuarine Research Reserve**

The reserve offers teacher workshops, a coastal cruise on a research vessel, and guided nature walks. Reservations are required.

Whit McMillan, Education Coordinator  
ACE Basin National Estuarine Research Reserve  
South Carolina Wildlife and Marine Resources Department  
PO Box 12559  
Charleston, SC 29412  
(803) 762-5437 / Fax: (803) 762-5007  
E-mail: wmcmillan@surf.nos.noaa.gov

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

#### **North Inlet/Winyah Bay National Estuarine Research Reserve**

Summer coastal ecology courses for grades K-5 and workshops for teachers are available. Reservations are required.

Wendy Allen, Education Coordinator  
North Inlet/Winyah Bay National Estuarine Research Reserve  
Baruch Marine Field Laboratory  
PO Box 1630  
Georgetown, SC 29442  
(803) 546-6219 / Fax: (803) 546-1632  
E-mail: wendy@belle.baruch.sc.edu

### **► Department of Education (ED)**

#### **Eisenhower Consortium for Mathematics and Science Education at SERVE**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Francena Cummings, Director  
Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
(850) 671-6033 / Fax: (850) 671-6010  
(800) 854-0476  
<http://www.serve.org/Eisenhower/>

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Tanzella Gaither  
Eisenhower Professional Development Program  
603 Rutledge Building  
1429 Senate Street  
Columbia, SC 29201  
(803) 734-8312 / Fax: (803) 734-5953

#### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Nancy Healy-Williams, Academic Program Coordinator  
Eisenhower Professional Development Program  
South Carolina Commission on Higher Education  
1333 Main Street, Suite 200  
Columbia, SC 29201  
(803) 737-2243 / Fax: (803) 253-2297

Gail Morrison, Associate Commissioner for Academic Affairs  
South Carolina Commission on Higher Education  
1333 Main Street, Suite 300  
Columbia, SC 29201  
(803) 737-2446 / Fax: (803) 737-2297

#### **Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznagel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: dholznag@serve.org  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: Deborah\_Williams@ed.gov

#### **SouthEastern Regional Vision for Education (SERVE)**

SERVE identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

John Sanders, Executive Director  
SERVE  
PO Box 5367  
Greensboro, NC 27435  
(910) 334-3211 / Fax: (910) 334-3268  
(800) 755-3277  
<http://www.serve.org/>

SERVE, South Carolina  
1008 Rutledge Building  
1429 Senate Street  
Columbia, SC 29201  
(803) 734-4110 / Fax: (803) 734-3389

## ► Department of Energy (DOE)

### Appalachian Regional Commission (ARC) and Oak Ridge National Laboratory (ORNL)

Secondary teachers can participate in research-based programs at ORNL during a summer science, mathematics, and technology Teacher Leadership Institute. The institute is provided in a two-week summer residential format patterned after the ORNL/National Science Foundation (NSF) National Teacher Enhancement Project and Leadership Institute. Participants are selected by ARC from secondary schools throughout the ARC region. The focus is on "hands-on" laboratory research applying the tools and methods used in ongoing ORNL projects in research areas (as appropriate for each teacher's teaching assignment), pedagogy, and leadership. The program features telecommunications instruction at the ORNL Regional Science Center and telecommunications is the primary method used for academic year follow-up and continued interactions with the teachers. Participants in the Teacher Leadership Institute are hosted by several ORNL research divisions based on each teacher's background and interests. A program coordinator with experience in teacher preparation/higher education delivers instruction in pedagogy and educational leadership.

ARC and ORNL also collaborate on a summer science, mathematics, and technology Summer Science Honors Academy for ARC students to participate in research-based programs at ORNL. Student participants (seniors or graduating seniors) are selected by ARC from secondary schools throughout the region. Students are teamed with research mentors to participate in hands-on laboratory research applying the tools and methods used in ongoing ORNL projects. Students also receive telecommunications instruction at the ORNL Regional Science Center.

Linda C. Cain, Director  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, 5500A, MS 6365  
Oak Ridge, TN 37831-6365  
(423) 576-3886 / Fax: (423) 241-6776  
E-mail: 9LC@ornl.gov

### Savannah River Ecology Laboratory (SREL)

SREL offers outstanding short- and long-term educational and research opportunities in ecology and environmental sciences for undergraduate and graduate students and university faculty. The lab also participates in the DOE-sponsored Teacher Research Associates (TRAC) program.

J Vaun McArthur  
Savannah River Ecology Laboratory  
Environmental Outreach and Education  
Division  
Program Office, Drawer E  
Aiken, SC 29802  
(803) 725-2472 / Fax: (803) 725-3309  
E-mail: mcarthur@srel.edu

### Savannah River Site (SRS)

Tours of SRS are available to groups wishing to obtain educational knowledge or general information about the site. High school groups and college or university organizations may request an invitation to tour.

WSRC Visitors Program  
Community Relations Department  
Building 705-A  
Aiken, SC 29803  
(803) 725-0191

## ► Department of the Interior (DOI)

### Bureau of Land Management Eastern States Office

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1713

### Carolina Sandhills National Wildlife Refuge

Both in-school presentations and guided field trips at the refuge can be arranged upon request.

Carolina Sandhills National Wildlife Refuge  
Route 2, Box 330  
McBee, SC 29101  
(803) 335-8401 / Fax: (803) 335-8406

### Congaree Swamp National Monument

Spring and fall environmental programs are offered for students at the monument, and

field trips are available for teachers. Guided walks are also available.

Division of Interpretation  
Congaree Swamp National Monument  
200 Caroline Sims Road  
Hopkins, SC 20961  
(803) 776-4396

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Office of Communications and Governmental  
Affairs  
Education Coordinator  
Minerals Management Service  
1849 C Street NW, LMS4230  
Washington, DC 20240-0001  
(202) 208-3985 / Fax: (202) 208-3968

Offshore Minerals Management Technical  
Communications Service  
Minerals Management Service  
381 Eldon Street, MS 4530  
Herndon, VA 20170-4817  
(703) 787-1080 / Fax: (703) 787-1186

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Don Winslow, Project WILD Coordinator  
South Carolina Wildlife and Marine  
Resources  
1000 Assembly, PO Box 167  
Columbia, SC 29202  
(803) 734-3888 / Fax: (803) 734-3951

## ► Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Joel T. Cassidy, Executive Director  
South Carolina Employment Security  
Commission  
1550 Gadsden Street  
PO Box 995  
Columbia, SC 29202  
(803) 737-2617 / Fax: (803) 737-2642

## ► Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Opal R. Neely, ASO-17B  
FAA Southern Region  
1701 Columbia Avenue  
College Park, GA 30337  
(404) 305-5310 / Fax: (404) 305-5311

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Parnell Smith, Dean  
Clinton Junior College  
PO Box 968  
Rock Hill, SC 29731  
(803) 327-7402

## ► Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Rich Nawyn, Environmental Education Coordinator  
Environmental Protection Agency  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street SW  
Atlanta, GA 30303  
(404) 562-8320 / Fax: (404) 562-8335

## ► National Aeronautics and Space Administration (NASA)

### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Virginia Air and Space Center  
600 Settlers Landing Road  
Hampton, VA 23669-4033  
(757) 727-0900, ext. 757

### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Marchelle Canright, Precollege Officer  
NASA Langley Research Center, MS 400  
Hampton, VA 23681-0001  
(757) 864-3313

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Regional Educator Resource Center  
Stanback Planetarium  
South Carolina State University  
PO Box 7636  
Orangeburg, SC 29117-7636  
(803) 536-8709

### Space Grant Consortium

The Space Grant Consortium in each State consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

South Carolina Space Grant Consortium  
Department of Geology  
66 George Street  
Charleston, SC 29424  
(803) 953-5463



► **National Science  
Foundation (NSF)**

**Statewide Systemic Initiatives  
(SSI) Program**

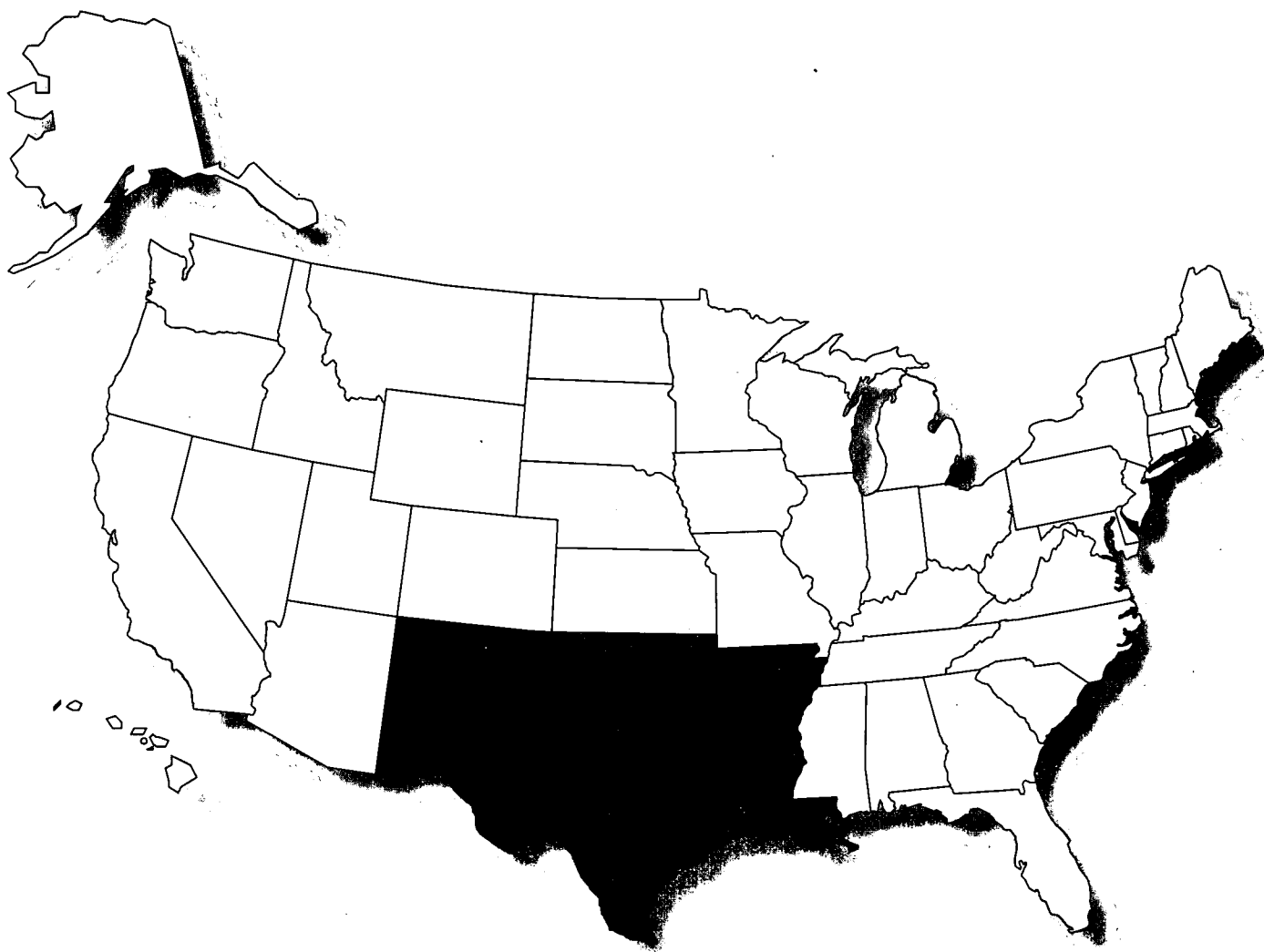
South Carolina's SSI Program uses regional centers to achieve systemic reform. These centers develop teacher leaders and expand their expertise in instructional strategies, assessment, and community outreach projects. This initiative is supported by changes in policy, certification standards for both teachers and administrators, school regulations and accountability, and the development of state science and mathematics curriculum frameworks.

Marc Drews  
South Carolina Department of Education  
Room 603  
1429 Senate Street  
Columbia, SC 29201  
(803) 734-8311 / Fax: (803) 734-5953  
E-mail: mdrews@sde.state.sc.us

- ▶ Arkansas
- ▶ Louisiana
- ▶ New Mexico
- ▶ Oklahoma
- ▶ Texas

# Southwest Region

➔ **Eisenhower Southwest Consortium  
for the Improvement of Mathematics  
and Science Teaching**



# Eisenhower Southwest Consortium for the Improvement of Mathematics and Science Teaching

**Southwest  
Region**

**T**he Eisenhower Southwest Consortium for the Improvement of Mathematics and Science Teaching (SCIMAST) is one of 10 Eisenhower Mathematics and Science Regional Consortia established by the U.S. Department of Education. The National Network of Eisenhower Regional Consortia and the Eisenhower National Clearinghouse for Mathematics and Science Education (ENC) form a coordinated, field-based national infrastructure to promote systemic educational reform. SCIMAST encourages systemic educational reform in its region by supporting regional, state, and local reform initiatives and filling gaps in knowledge and service. These efforts help educators:

- ▶ Develop statewide visions of a system of mathematics and science education that provides equal access to all students and reflects emerging world-class standards.
- ▶ Develop state policies and systems to guide the implementation of that vision.
- ▶ Implement professional development approaches that model effective teaching and provide sustained support.
- ▶ Identify, adapt, and use instructional materials, methods, and assessment tools to implement new visions of mathematics and science education.

In 1992 SCIMAST began providing services to the southwest region under a grant from the U.S. Department Education's Eisenhower National Program for Mathematics and Science Education. Each year federal funding covers 80 percent (\$1,475,000) of SCIMAST's costs. Non-federal contributions, which make up the other 20 percent (\$367,000), are generated exclusively through cost-share donations of the value of teachers' time spent participating in SCIMAST activities. SCIMAST is housed and supported by the Southwest Educational Development Laboratory (SEDL) which has provided educational services to the Southwest since 1966.

## Activities

Consortium activities are grounded in the beliefs that systemic reform requires support for change at all levels of the educational sys-

tem and that educators at all levels must participate in setting the direction for change. If any single group is critical in transforming educational practice, it is teachers. They must have an active voice in the reform movement; they also need strong programs of professional development and support. Teachers often teach in the ways they have been taught, not in the ways they have been educated to teach. Effective teacher training, therefore, models the instructional approaches that teachers are expected to use in the classroom.

Consortium activities also reflect the belief that equity must be a priority in the reform and redesign of mathematics and science education. No country can maintain world-class status if half or more of its students are disenfranchised from the educational system. Equal access means more than the freedom to walk through a classroom door or enroll in a course—it includes access to ideas and resources. Instructional content and strategies must be geared to the context, interests, and needs of every student, not merely those for whom the mathematics and science pipeline has traditionally been structured.

SCIMAST's organizational structures and activities are designed to be as inclusive as possible, promoting open communication and collaboration among a broad spectrum of participants. The 15-member Consortium Advisory Board includes representatives from all levels of educational policy and practice and reflects the Southwest's cultural and ethnic diversity. Service activities also are targeted to a wide range of practitioners and policymakers.

## Services

The consortium offers services to educators at all levels, including state and local policymakers, teacher trainers and professional development staff, and local administrators, supervisors, and teachers. Networking activities include regional forums that focus on reform issues and concerns, as well as state-level meetings that facilitate consensus regarding standards and policies. Technical assistance is provided to states to support development and implementation of statewide visions, goals, standards, frameworks, curricula, materials, assessments, and instructional practices.

Schools also receive technical assistance to identify, select, and implement quality programs, materials, and assessment activities.

Professional development work sessions increase policymakers' and teacher educators' awareness and proficiency in using effective, student-centered staff development approaches. Professional development awards are available to support and strengthen local preservice and inservice programs. Using up-to-date content and modeling effective teaching, the consortium also provides intensive long-term professional development and follow-up support for teachers.

SCIMAST identifies regional resources—including materials, instructional methods, and assessment tools—that are appropriate for dissemination through ENC. It also disseminates information about reform issues, regional resources, SCIMAST services, and the services and information available through ENC.

**Stephen Marble**  
*Director*

**Dawn McArdle**  
*Administrative Secretary*

**Veronica Mendoza**  
*Administrative Secretary*

**Mary Jo Powell**  
*Program Associate*

**Barbara Salyer**  
*Program Associate*

**Lori Snider**  
*Administrative Assistant*

**Maria Torres**  
*Program Associate*

## Associated Staff:

**Margaret Bolick**  
*Program Associate*

**Glenda Clark**  
*Program Associate*

## Arkansas

**Sandra Finley**  
*Program Associate*

**Chris Ferguson**  
*Program Associate*

Southwest Consortium for the Improvement  
of Mathematics and Science Teaching  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
E-mail: [scimast@sedl.org](mailto:scimast@sedl.org)  
<http://www.sedl.org/pitl/scimast.html>

focuses on sustained and intensive high-quality professional development through inservice programs.

Gayle Potter  
Eisenhower Professional Development  
Program  
Arkansas Department of Education  
Four State Capitol Mall, Room 107-A  
Little Rock, AR 72201  
(501) 682-4558 / Fax: (501) 682-4886

### **Eisenhower State Coordinators for Higher Education**

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Suzanne Mitchell  
Eisenhower Professional Development  
Program  
Arkansas Department of Higher Education  
114 East Capitol Avenue  
Little Rock, AR 72201-1904  
(501) 371-2062 / Fax: (501) 371-2008  
E-mail: [susannem@adhe.arknet.edu](mailto:susannem@adhe.arknet.edu)

### **Southeast and Islands Regional Technology in Education Consortium (SEIR\*TEC)**

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Don Holznapel, Director  
SEIR\*TEC-SERVE, Inc.  
41 Marietta Street NW, Suite 1000  
Atlanta, GA 30303  
(404) 893-0100 / Fax: (404) 577-7812  
(800) 659-3204 (Helpline)  
E-mail: [dholznap@serve.org](mailto:dholznap@serve.org)  
<http://www.serve.org/seir-tec/>

Deborah Williams, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504f  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2204  
E-mail: [Deborah\\_Williams@ed.gov](mailto:Deborah_Williams@ed.gov)

### **Southwest Consortium for the Improvement of Mathematics and Science Teaching (SCIMAST)**

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Stephen Marble, Director  
SCIMAST  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
<http://www.sedl.org/pitl/scimast.html>

### **Southwest Educational Development Laboratory (SEDL)**

SEDL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Wesley A. Hoover, Executive Director  
SEDL  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
(800) 476-6861  
<http://www.sedl.org/>

### **► Department of the Interior (DOI)**

#### **Arkansas Post National Memorial**

The memorial offers guided nature walks and lectures that focus on archeology, biology, water conservation and ecology, and anthropology.

Division of Interpretation  
Arkansas Post National Memorial  
1741 Old Post Road  
Gillett, AR 72055  
(870) 548-2432

#### **Buffalo National River**

A Day by the Buffalo is an onsite school program presented to fourth through sixth graders from the 21 school districts in the area. Presented at four possible park locations, the program explores the natural and cultural resources of the region through a variety of hour-long presentations. Hands-on investigations of river and forest and pioneer homesteads make these sites real to students. Pre- and post-visit materials are available to participating teachers.

In the Arkansas Water Education Team (WET) program, high school students are taught to monitor water quality using EPA-approved techniques. Schools are provided

## Arkansas

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Sarah Anderson, Associate Director  
Family, Youth and 4-H Education  
University of Arkansas  
Arkansas CES  
PO Box 391, 2301 South University Avenue  
Little Rock, AR 72204  
(501) 671-2001 / Fax: (501) 671-2251  
E-mail: [sandyand@randomc.com](mailto:sandyand@randomc.com)

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Larry R. Dale  
ASU Center for Economic Education  
PO Box 2890  
University of Arkansas  
State University, AR 72467-2890  
(501) 972-3810 / Fax: (501) 972-3810

### **► Department of Education (ED)**

#### **Eisenhower State Coordinators**

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program



with equipment and supplies needed to monitor a stream near their school. Agency representatives work closely with participants to guide them through ongoing data collection and analysis. The program includes physical science, chemistry, and biology topics.

Douglas Wilson, Chief Park Interpreter  
Buffalo National River  
402 North Walnut, Suite 136  
Harrison, AR 72601  
(870) 741-5443 / Fax: (870) 741-7286

### **Bureau of Land Management Eastern States Office**

This office provides information about educational programs, materials, and local land-management issues.

Charles Bush, Education Coordinator  
Bureau of Land Management  
7450 Boston Boulevard  
Springfield, VA 22153  
(703) 440-1745 / Fax: (703) 440-1551

### **Hot Springs National Park**

The program *How Hot is the Water?* lets student groups measure the temperature of the hot springs using Fahrenheit and Celsius thermometers. Class results are then averaged. The Thermal Features Geology Tour is a guided tour of the hot springs discharge area. The program explains the geology of the Ouachita Mountains and how it relates to the formation of the hot springs. The tour also includes a taste of the water.

Gail Sears, Park Ranger—Interpretation  
Hot Springs National Park  
PO Box 1860  
Hot Springs, AR 71902  
(501) 623-3383, ext. 656 / Fax: (501) 624-3458  
E-mail: gail\_sears@nps.gov

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Pat Knighten, Project WILD Coordinator  
Arkansas Game and Fish Commission  
2 Natural Resources Drive  
Little Rock, AR 72205  
(501) 223-6405 / Fax: (501) 233-6447

## **► Department of Labor (DOL)**

### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state

and local programs for economically disadvantaged adults and youth.

Ed Rolle, Director  
Arkansas Employment Security Department  
PO Box 2981  
Little Rock, AR 72203  
(501) 682-5227 / Fax: (501) 682-3144

## **► Department of Transportation (DOT)**

### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. Territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Debra Myers, ASW-18B  
FAA Southwest Region  
2601 Meecham Boulevard  
Fort Worth, TX 76137-4298  
(817) 222-5833 / Fax: (817) 222-5948

### **FAA Aviation Education Resource Centers**

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA

education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Louis Midkiff  
Aviation Education Resource Center  
Crowley's Ridge Education Service  
Cooperative  
PO Box 377  
Harrisburg, AR 72432  
(501) 578-5426

Catherine Johnson  
Aerospace Education Center  
425 West Capital Avenue, Suite 3280  
PO Box 7332  
Little Rock, AR 72201  
(503) 371-0331

## **► Environmental Protection Agency (EPA)**

### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Ed Curran, Environmental Education  
Coordinator  
Environmental Protection Agency  
1445 Ross Avenue (6XA)  
Dallas, TX 75202  
(214) 655-2204 / Fax: (214) 655-2118

### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

### **Minerals Management Service (MMS) Regional Office**

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Gulf of Mexico Outer Continental Shelf Region

Minerals Management Service  
Office of Public Affairs  
1201 Elmwood Park Boulevard, MS 5000  
New Orleans, LA 70123-2394  
(504) 736-2595 / Fax: (504) 736-2459  
(800) 200-GULF

### **Project WILD**

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Wayne Huston, Project WILD Coordinator  
Department of Wildlife and Fisheries  
PO Box 98000  
Baton Rouge, LA 70898-9000  
(504) 765-2922 / Fax: (504) 763-3568

### **National Wetland Research Center**

In a four-week Summer Teacher Enhancement Institute, high school science teachers experience microscopic methods as currently applied in the study of wetland microbial community dynamics. Efforts are made to apply what the teachers learn to curriculum design and implementation during the institute and in follow-up.

The Workshop on Wetlands Mapping and GIS for Educators is an eight-hour workshop providing hands-on experience with the Geographic Information System (GIS) software MapIX. Teachers display and query historical databases on marsh and wetland distribution. The workshop includes a discussion of wetland processes.

Gerald Grau, Assistant Director  
National Wetland Research Center  
700 Cajundome Boulevard  
Lafayette, LA 70506  
(318) 266-8500 / Fax: (318) 2666-8513  
E-mail: grau@nwrc.gov

### **Southern Science Center**

Earth Stewards: A Partnership Among Resource Professionals, Neighborhood Schools, and Communities uses resources of the Fish and Wildlife Service to educate school children and communities about biological resources and local conservation issues. Saturday Science Academy provides enrichment activities related to science, math, computers, language arts, and art. Children in

grades 3-8 meet four hours each Saturday during the spring and summer.

Wendell D. Calhoun, Communication Specialist  
Southern Science Center  
700 Cajundome Boulevard  
Lafayette, LA 70506  
(318) 266-8550 or 266-8553  
Fax: (318) 266-8513  
E-mail: calhoun@nwrc.gov

### **► Department of Labor (DOL)**

#### **Job Training Partnership Act (JTPA) Liaison**

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Garey J. Forster, Secretary  
Louisiana Department of Labor  
PO Box 94094  
Baton Rouge, LA 70804-9094  
(504) 342-7693 / Fax: (504) 342-7960

### **► Department of Transportation (DOT)**

#### **Federal Aviation Administration (FAA) Aviation Education**

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

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Debra Myers, ASW-18B  
FAA Southwest Region  
2601 Meecham Boulevard  
Fort Worth, TX 76137-4298  
(817) 222-5833 / Fax: (817) 222-5948

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Marlon Abbas, Director  
Aviation Education Resource Center  
Louisiana State University  
Transportation Systems Group  
Louisiana Transportation Research Center  
4101 Gourrier Avenue  
Baton Rouge, LA 70808  
(504) 767-9127

Ernie Bruce  
Aviation Education Resource Center  
Northeast Louisiana University  
Chemistry and Natural Sciences Building  
Room 103  
Monroe, LA 71209-0590  
(318) 342-1784

### **► Environmental Protection Agency (EPA)**

#### **EPA Regional Office**

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Ed Curran, Environmental Education Coordinator  
Environmental Protection Agency  
1445 Ross Avenue (6XA)  
Dallas, TX 75202  
(214) 655-2204 / Fax: (214) 655-2118

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

Pat Baker  
EPA Region 6  
1445 Ross Avenue (6XA)  
Dallas, TX 75202-2733  
(214) 665-7185 / Fax: (214) 655-2118

### ► National Aeronautics and Space Administration (NASA)

#### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

U.S. Space and Rocket Center  
NASA Educator Resource Center for  
Marshall Space Flight Center  
One Tranquility Base  
Huntsville, AL 35758  
(205) 544-5812

#### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Jim Pruitt, Director  
Education Programs Office  
NASA Marshall Space Flight Center  
Mail Code CL01  
Huntsville, AL 35812-0001  
(205) 544-8800

### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

Bossier Parish Community College  
NASA Regional Educator Resource Center  
2719 Airline Drive  
Bossier City, LA 71111  
(318) 746-9851

#### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Louisiana Space Grant Consortium  
Louisiana State University  
Department of Physics and Astronomy  
227 Nicholson Hall  
Baton Rouge, LA 70803-4001  
(504) 388-8697

### ► National Science Foundation (NSF)

#### Louisiana's Statewide Systemic Initiatives (SSI) Program

Louisiana's SSI program is designed to modernize mathematics and science curricula through changes in teacher preparation programs and enhancement of teaching skills. The integration of math and science standards into curriculum development, textbook adoption, and assessment is a key objective, while additional objectives include upgrading teacher certification standards, incorporating technologies into the classroom, and involving parents in education.

Kerry Davidson  
Louisiana Board of Regents, LaSIP  
150 Third Street, Suite 129  
Baton Rouge, LA 70801  
(504) 342-4253 / Fax: (504) 342-6926  
E-mail: davidson@regents.state.la.us

#### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation. It also encourages development of community infrastructure to

sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Charles C. Alexander  
University of Mississippi  
Hume Hall 227  
University, MS 38677

### Urban Systemic Initiatives (USI) Program

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Cynthia S. Caliste  
New Orleans Public Schools  
3510 General De Gaulle Drive  
New Orleans, LA 70114  
(504) 365-5370 / Fax: (504) 365-5373

## New Mexico

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Jesse Holloway, Extension Department Head  
4-H and Family  
Neale Hall, Room 286, Drawer 3AE  
New Mexico State University  
Las Cruces, NM 88003-0003  
(505) 646-3026 or 1157 / Fax: (505) 646-5975  
E-mail: jholloway@nmsu.edu

#### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Smokey Blanton, AITC State Chairman  
New Mexico Farm and Livestock Bureau  
421 North Water  
Las Cruces, NM 88001  
(505) 526-5521 / Fax: (505) 525-0858

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Larry Martinez  
Eisenhower Professional Development Program  
New Mexico Department of Education  
300 Don Gaspar Street  
Santa Fe, NM 87501-2786  
(505) 827-4244 / Fax: (505) 827-6694

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Bill Simpson  
Eisenhower Professional Development Program  
New Mexico Commission of Higher Education  
1068 Cerrillos Road  
Santa Fe, NM 87501-4295  
(505) 827-7383 / Fax: (505) 827-7392

### Pacific and Southwest Regional Technology in Education Consortium (PSR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance and information dissemination.

Kevin Rocap and Raynette Sanchez, Co-Directors  
PSR\*TEC  
School of Education, ED2, Room 210  
California State University, Long Beach  
1250 Bellflower Boulevard  
Long Beach, CA 90840-2201  
(562) 985-5806 / Fax: (562) 985-1774  
E-mail: clmer@csulb.edu  
<http://psrtec.clmer.csulb.edu/>

Catherine Mozer Connor  
R\*TEC Team Leader  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 506a  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-8070  
E-mail: cconnor@inet.ed.gov

### Southwest Consortium for the Improvement of Mathematics and Science Teaching (SCIMAST)

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Stephen Marble, Director  
SCIMAST  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
<http://www.sedl.org/pitl/scimast.html>

### Southwest Educational Development Laboratory (SEDL)

SEDL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Wesley A. Hoover, Executive Director  
SEDL  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
(800) 476-6861  
<http://www.sedl.org/>

## ► Department of Energy (DOE)

### Adventures in Supercomputing (AiS)

The AiS program is designed to foster and enhance the participation of diverse populations of high school students in mathematics, science, and computing.

Barbara G. Summers, Education Program Manager  
Oak Ridge National Laboratory  
Office of University and Science Education  
PO Box 2008, MS 6366  
Oak Ridge, TN 37831-6366  
(423) 241-3705 / Fax: (423) 241-6776  
E-mail: summersbg@ornl.gov

### Los Alamos National Laboratory

The laboratory provides teacher enhancement workshops, student research internships, summer programs for students, outreach programs, and educational technology programs.

Dennis Gill, Program Manager  
Science Education Programs  
Los Alamos National Laboratory  
PO Box 1663, STB-EPO F671  
Los Alamos, NM 87545  
(505) 667-8680 / Fax: (505) 665-6871  
E-mail: dgill@lanl.gov

### Sandia National Laboratories (New Mexico)

The laboratories offer a quality organization program for schools, a science enhancement program for teachers, and a student mentorship program.

Anthony Thornton, Ph.D., Director  
Diversity Leadership and Education Outreach  
Sandia National Laboratories/New Mexico  
MS 1356  
PO Box 5800  
Albuquerque, NM 87185-1356  
(505) 271-7984 / Fax: (505) 271-4104  
E-mail: althorn@sandia.gov

## ► Department of the Interior (DOI)

### Aztec Ruins National Monument

The monument offers educators guided walks and a teacher guide that focuses primarily on anthropology and history, but also incorporates aspects of environmental education.

Interpretation Division  
Aztec Ruins National Monument  
PO Box 640  
Aztec, NM 87410  
(505) 334-6174

### Bosque del Apache National Wildlife Refuge

Teacher workshops, in-school presentations, and various other environmental education activities are offered through the refuge.



Outdoor Recreation Planner  
Bosque del Apache NWR  
PO Box 1246  
Socorro, NM 87801  
(505) 835-1828 / Fax: (505) 835-0324

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Dave Mensing, Education Coordinator  
Bureau of Land Management  
PO Box 27115  
Santa Fe, NM 87502-0115  
(505) 438-7418 / Fax: (505) 438-7426

### Carlsbad Caverns National Park

The Chihuahuan Desert Lab is one of five model National Park Labs made possible through the Toyota USA and National Park Foundations to enhance the quality of science and math education for high school students. Local high school students will soon participate in four resource management projects: Restoration of the Chihuahuan Desert Ecosystem; Reintroduction and Monitoring of Prairie Dog Population; Inventorying, Banding, and Monitoring of Cave Swallows; and Water Quality Monitoring of Human Impact.

Teachers who take the Park Lab course offered at the University of New Mexico–Carlsbad will receive 45 hours of lab training in the classroom and in the field. Students throughout the country will be able to participate through a Web-based laboratory beginning in the fall of 1999. A limited supply of *The Chihuahuan Desert Lab Manual* will be made available to high school science teachers outside the region beginning in 2001.

Janet Ambrose Brittain, Training Specialist  
Carlsbad Caverns National Park  
3225 National Parks Highway  
Carlsbad, NM 88220  
(505) 785-2232 / Fax: (505) 785-2302  
E-mail: janet\_brittain@nps.gov

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K–12.

Eddie Bennett, Project WILD Coordinator  
New Mexico Game and Fish Department  
State Capitol Building  
Santa Fe, NM 87503  
(505) 827-7867 / Fax: (505) 827-7801

### White Sands National Monument

The monument sponsors a number of educational programs:

► **Camping in the Dunes** allows students to learn about minimum-impact resource use, ethics, camping skills, desert ecology, astronomy, and animal tracks on an overnight camping trip with a ranger.

► **Desert and Dunefield Ecology** sends students on a nature walk in the dunefield, where they learn the characteristics of a desert and how plants and animals adapt to desert and dunefield conditions.

► **Five-day Teacher Workshops** introduce teachers to park resources and hands-on activities in the areas of geology, desert ecology, Tularosa Basin history, endangered species, exotics, and biodiversity. The workshops include two field trips. In an overnight workshop, teachers learn about minimum-impact resource use, ethics, and camping skills in a classroom pre-session. In an overnight camping trip in the field, they learn about desert ecology and astronomy and practice minimum impact resource use.

► **Geology of Tularosa Basin and Gypsum Dunefield** allows students to climb a dune that provides a view of the mountains (source of gypsum), a small playa (model of larger ones that are the source of sand), the plains, and the dunefield. They learn how the basin and dunefield were formed.

► **Project Learning Tree (PLT) Workshop** is a supplemental environmental education program that uses forests as the vehicle to teach basic ecological principles. Teachers are introduced to the program, activities, and activity guide by participating in and leading activities.

► **Project Wild Workshop** introduces teachers to the program and activity guides. They participate in doing and leading the activities. Project Wild uses wildlife as the vehicle to teach basic ecological principles.

Anne Doherty, Education Specialist  
White Sands National Monument  
PO Box 1086  
Holloman AFB, NM 88330-1086  
(505) 479-6124 / Fax: (505) 437-9971

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Clinton D. Harden, Secretary of Labor  
New Mexico Department of Labor  
PO Box 1928  
Albuquerque, NM 87103  
(505) 841-8409 / Fax: (505) 841-8491

### ► Department of Transportation (DOT)

#### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Debra Myers, ASW-18B  
FAA Southwest Region  
2601 Meecham Boulevard  
Fort Worth, TX 76137-4298  
(817) 222-5833 / Fax: (817) 222-5948

#### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also pro-

vide general information, conduct workshops, and make aviation-related presentations.

Judy McShannon  
Aviation Education Resource Center  
New Mexico State University  
Goddard Hall, Room 103  
Las Cruces, NM 88003-0001  
(505) 646-6414

Richard S. Sanchez, Director  
Aviation Education Resource Center  
University of New Mexico  
FAA/NASA Educator Resource Center  
Division of Continuing Education  
Albuquerque, NM 87131-4006  
(505) 277-2631

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Ed Curran, Environmental Education  
Coordinator  
Environmental Protection Agency  
1445 Ross Avenue (6XA)  
Dallas, TX 75202  
(214) 655-2204 / Fax: (214) 655-2118

#### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

Pat Baker  
EPA Region 6  
1445 Ross Avenue (6XA)  
Dallas, TX 75202-2733  
(214) 665-7185 / Fax: (214) 655-2118

### ► National Aeronautics and Space Administration (NASA)

#### NASA Educator Resource Center

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

#### NASA Field Centers

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information Services Branch  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

#### NASA Regional Educator Resource Center (RERC)

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Educator Resource Center  
Cooperative Educational Services  
4216 Balloon Park Road NE  
Albuquerque, NM 87109  
(505) 344-5470

NASA Regional Educator Resource Center  
New Mexico State University  
Wells Hall, Bay 4  
Box 30001, Department SG  
Las Cruces, NM 88003-0001  
(505) 646-6414

### Space Grant Consortium

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

New Mexico Space Grant Consortium  
New Mexico State University  
Wells Hall, Bay 4  
PO Box 30001, Department SG  
Las Cruces, NM 88003-0001  
(505) 646-6414

### ► National Science Foundation (NSF)

#### Rural Systemic Initiatives (RSI) Program

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Elizabeth Yost  
New Mexico Highlands University  
Columbia, Suite 119  
Las Vegas, NM 87701  
(505) 454-3544 / Fax: (505) 454-3005  
E-mail: byost@merlin.nmhu.edu

## Oklahoma

### ► Department of Agriculture (USDA)

#### 4-H State Leader

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Charles B. Cox, State 4-H  
Program Leader  
Oklahoma State University  
205 Poultry Science Building  
Stillwater, OK 74078-6063  
(405) 744-8891 / Fax: (405) 744-6522  
E-mail: ccox@okway.okstate.edu

### Ag in the Classroom State Leader

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Charles B. Cox, State 4-H Program  
Leader  
Oklahoma State University  
205 Poultry Science Building  
Stillwater, OK 74078-6063  
(405) 744-8891 / Fax: (405) 744-6522  
E-mail: ccox@okway.okstate.edu

Jo Theimer  
Oklahoma Department of Agriculture  
2800 North Lincoln Building  
Oklahoma City, OK 73105-4298  
(405) 521-3864 / Fax: (405) 521-4912

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Keith Haley  
Eisenhower Professional Development  
Program  
Oklahoma Department of Education  
2500 North Lincoln Boulevard  
Oklahoma City, OK 73105  
(405) 521-3694 / Fax: (405) 521-6205

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Dolores A. Mize  
Eisenhower Professional Development  
Program  
Oklahoma Regents for Higher Education  
500 Education Building, State Complex  
Oklahoma City, OK 73105-4503  
(405) 524-9100 / Fax: (405) 524-9230

### South Central Regional Technology in Education Consortium (SCR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Jim Nazworthy, Project Coordinator  
Jerry D. Chaffin and Ron Aust, Co-Directors  
SCR\*TEC  
University of Kansas  
Dole Human Development Building, Suite  
2021  
Lawrence, KS 66045  
(785) 864-0699 / Fax: (785) 864-0704  
(888) TEC-2001  
E-mail: info@scrtec.org  
<http://scrtec.org/>

Stephen Balkcom, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and  
Improvement  
ORAD/SLSD, Room 504d  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2089  
E-mail: sbalkcom@inet.ed.gov

### Southwest Consortium for the Improvement of Mathematics and Science Teaching (SCIMAST)

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Stephen Marble, Director  
SCIMAST  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
<http://www.sedl.org/pitl/scimast.html>

### Southwest Educational Development Laboratory (SEDL)

The Regional Educational Laboratory identifies effective teaching techniques and school

improvement efforts within the region and shares this information with state and local educators.

Wesley A. Hoover, Executive Director  
SEDL  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
(800) 476-6861  
<http://www.sedl.org/>

## ► Department of Energy (DOE)

### National Petroleum Technology Office (NPTO)

The education outreach program at NPTO develops partnerships to promote industry and community support of science education. Programs include teacher training, workshops, and the Oklahoma Science Bowl. For example, teacher training in oil and gas exploration is a three- to five-day course that provides an awareness of America's dependence on oil-based products, an understanding of basic Earth science concepts as applied to the exploration of oil and gas, firsthand experience with the tools used in exploration, and a field trip.

Herb Tiedemann  
National Petroleum Technology Office  
Williams Center Tower 1  
One West Third Street  
Tulsa, OK 74103  
(918) 699-2017 / Fax: (918) 699-2005  
E-mail: htiedema@npto.doe.gov

## ► Department of the Interior (DOI)

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Dave Mensing, Education Coordinator  
Bureau of Land Management  
PO Box 27115  
Santa Fe, NM 87502-0115  
(505) 438-7418 / Fax: (505) 438-7426

### Chickasaw National Recreation Area

The park offers guided nature walks that focus on geology and environmental education.

Division of Interpretation  
Chickasaw National Recreation Area  
PO Box 201  
Sulphur, OK 73086  
(405) 622-3161

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Lisa Anderson, Project WILD Co-Coordinator  
Department of Wildlife Conservation  
1801 North Lincoln Boulevard  
Oklahoma City, OK 73105  
(405) 521-6704 / Fax: (405) 521-6898

Lisa Knauf, Project WILD Co-Coordinator  
Oklahoma Conservation Commission  
2800 North Lincoln Boulevard, Suite 160  
Oklahoma City, OK 73105  
(405) 521-2384 / Fax: (405) 521-6686

### Wichita Mountains National Wildlife Refuge

The refuge offers environmental education programs, including teacher-accredited workshops. Curriculum materials are available.

Programs include the following:

- ▶ **Biodiversity—The Wichita Biome** uses the refuge as a showcase and center of biodiversity protection. The staff involve participants in an action-based curriculum designed to help assess the health of their environment. The curriculum provides a strong base in biological sciences interspersed with political and social science. Students analyze various components of their environment, such as air quality, water quality, flora and fauna, and cultural diversity.
- ▶ **Edible Plants** is a program used to give students a sense of humankind's relationship to nature and dependence on habitat. Students learn to recognize and use several common prairie plant species, and correlate their activities to the maintenance of healthy grassland conditions.
- ▶ **Geology: The Past, Present, and Future of the Wichita Mountains** is an overview of the geologic history of the Wichita Mountains. It teaches basic identification techniques of rocks and minerals. Special emphasis is placed on mankind's impact on the resources, from early gold mining through present-day recreational and industrial impacts.

Claudine Daniel, Environmental Education Specialist  
Wichita Mountains NWR  
Rural Route 1, Box 448  
Indianola, OK 73552  
29-3221 / Fax: (405) 429-9323

## ▶ Department of Labor (DOL)

### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Glen E. Robards, Jr., Associate Director  
Employment and Training Division  
Oklahoma Employment Security Commission  
Will Rogers Memorial Office Building  
2401 North Lincoln  
Oklahoma City, OK 73105  
(405) 557-5329 / Fax: (405) 557-1478

## ▶ Department of Transportation (DOT)

### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- ▶ **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- ▶ **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- ▶ **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Debra Myers, ASW-18B  
FAA Southwest Region  
2601 Meecham Boulevard  
Fort Worth, TX 76137-4298  
(817) 222-5833 / Fax: (817) 222-5948

Robert Hoppers, AMC-5, FAA Aviation Education Representative  
Aeronautical Center  
FAA Mike Monroney  
PO Box 25082  
Oklahoma City, OK 73125  
(405) 680-7500 / Fax: (405) 954-4551

### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Lee Morris, Director  
Aviation Education Resource Center  
University of Oklahoma  
Education and Aviation/Aerospace  
1700 Asp Avenue  
Norman, OK 73037-0001  
(405) 325-1964

Steve Marks  
FAA Resource Center  
Oklahoma State University  
308A CITD Building  
Stillwater, OK 74078  
(405) 744-7015

## ▶ Environmental Protection Agency (EPA)

### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Ed Curran, Environmental Education Coordinator  
Environmental Protection Agency  
1445 Ross Avenue (6XA)  
Dallas, TX 75202  
(214) 655-2204 / Fax: (214) 655-2118

### The President's Environmental Youth Awards (PEYA) Program

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a



nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

Pat Baker  
EPA Region 6  
1445 Ross Avenue (6XA)  
Dallas, TX 75202-2733  
(214) 665-7185 / Fax: (214) 655-2118

### **Robert S. Kerr Environmental Research Laboratory**

Student employment and partnership programs are offered through the laboratory.

U.S. Environmental Protection Agency  
Robert S. Kerr Environmental Research Laboratory  
PO Box 1198  
Ada, OK 74820  
(405) 338-8800

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information Services Branch  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

#### **NASA Regional Educator Resource Center (RERC)**

To offer more educators the opportunity to visit the Educator Resource Center Network (ERCN), NASA forms partnerships with planetariums, universities, museums, and other nonprofit organizations to serve as RERCs. Teachers may preview or copy NASA materials upon request.

NASA Aerospace Education Resource Center  
Oklahoma State University  
308A CITD Building  
Stillwater, OK 74078-8089  
(405) 744-6784

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Oklahoma Space Grant Consortium  
University of Oklahoma  
College of Geosciences  
100 East Boyd Avenue, Suite 1210  
Norman, OK 73019-0628  
(405) 325-1240

### **► National Science Foundation (NSF)**

#### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation, and encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

John Woods  
Department of Mathematics  
Southwestern Oklahoma State University  
Weatherford, OK 73096  
(405) 774-3038

## **Texas**

### **► Department of Agriculture (USDA)**

#### **4-H State Leader**

The State 4-H Youth Development Programs are administered by the Cooperative Extension Service at land-grant universities. State 4-H leaders coordinate outreach services and training to all county offices.

Beverly Spears, Interim Program Leader 4-H  
Prairie View A&M University  
Texas CES  
PO Box 3059  
Prairie View, TX 77446-3059  
(409) 857-2517 / Fax: (409) 857-2004  
E-mail: ba-spears@tamu.edu

#### **Ag in the Classroom State Leader**

This program promotes increased understanding of agriculture and possible careers in the agricultural sciences. With national leadership provided by USDA, each state manages its own programs, with assistance from agribusiness, educational institutions, and government.

Tad Duncan  
Texas Farm Bureau  
PO Box 2689  
Waco, TX 76702-2689  
(817) 772-3030 / Fax: (817) 772-3628

### **► Department of Commerce (DOC)**

#### **Flower Garden Banks National Marine Sanctuary**

The sanctuary offers educational materials and in-school presentations.

Shelley Dupuy, Education Coordinator  
Flower Garden Banks National Marine Sanctuary  
216 West 26th Street, Suite 104  
Bryan, TX 77803  
(409) 779-2705 / Fax: (409) 779-2234  
E-mail: sdupuy@ocean.nos.noaa.gov

#### **National Sea Grant College Program, COAST Operation Pathfinder**

The program consists of two-week summer courses that present an introduction to oceanographic and coastal processes. Courses are available in six regions and are designed to enhance skills in science teaching.

Sharon Walker  
Mississippi-Alabama Sea Grant Consortium  
and Gulf Coast Research Laboratory  
PO Box 7000  
Ocean Springs, MS 39566-7000  
(228) 374-5550 / Fax: (228) 374-5559

## ► Department of Defense (DoD)

### Brooks Air Force Base

The base offers in-class speakers and presentations upon request and also manages a research program for high school students.

Brooks Air Force Base  
HSC/PA  
2510 Kennedy Circle, Suite 1  
Brooks Air Force Base, TX 78235-5020  
(210) 536-3234

### Chief of Naval Air Training, Corpus Christi

This unit participates in the Navy Community Service Program through formation of partnerships with schools and other youth organizations in the area.

CNATRA, Corpus Christi TX  
Commander  
Chief of Naval Air Training  
250 Lexington Boulevard, Suite 102  
Code 00A2  
Corpus Christi, TX 78419-5041  
(512) 939-3502

## ► Department of Education (ED)

### Eisenhower State Coordinators

Eisenhower State Coordinators administer the Eisenhower Professional Development Program State Formula grants. The program focuses on sustained and intensive high-quality professional development through inservice programs.

Cory Green  
Eisenhower Professional Development Program  
Texas Education Agency  
1701 North Congress  
Austin, TX 78701  
(512) 463-9006 / Fax: (512) 475-2619

### Eisenhower State Coordinators for Higher Education

Eisenhower State Coordinators oversee the Eisenhower Professional Development State Formula grants for the State Agency for

Higher Education (SAHE). The program focuses on teacher enhancement through both inservice and preservice programs.

Gloria White  
Eisenhower Professional Development Program  
Texas Higher Education Coordinating Board  
7745 Chevy Chase, Building #5  
PO Box 12788, Capitol Station  
Austin, TX 78711  
(512) 483-6224 / Fax: (512) 483-6522

### South Central Regional Technology in Education Consortium (SCR\*TEC)

ED established the Regional Technology in Education Consortia (R\*TEC) program in the fall of 1995 to help states, districts, schools, adult literacy centers, and other educational institutions use advanced technology to support improved teaching and student achievement. R\*TEC's role in educational technology is unique in two ways: the emphasis is regional and the primary goal is to ensure that technology is used effectively to support school reform. Program strategies include professional development, technical assistance, and information dissemination.

Jim Nazworthy, Project Coordinator  
Jerry D. Chaffin and Ron Aust, Co-Directors  
SCR\*TEC  
University of Kansas  
Dole Human Development Building, Suite 2021  
Lawrence, KS 66045  
(785) 864-0699 / Fax: (785) 864-0704  
(888) TEC-2001  
E-mail: info@scrtec.org  
<http://scrtec.org/>

Stephen Balkcom, R\*TEC Project Officer  
U.S. Department of Education  
Office of Educational Research and Improvement  
ORAD/SLSD, Room 504d  
555 New Jersey Avenue NW  
Washington, DC 20208-5644  
(202) 219-2089  
E-mail: sbalkcom@inet.ed.gov

### Southwest Consortium for the Improvement of Mathematics and Science Teaching (SCIMAST)

The Eisenhower Regional Consortium provides information and technical assistance to help states and school districts improve mathematics and science education.

Stephen Marble, Director  
SCIMAST  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
<http://www.sedl.org/pitl/scimast.html>

### Southwest Educational Development Laboratory (SEDL)

SEDL identifies effective teaching techniques and school improvement efforts within the region and shares this information with state and local educators.

Wesley A. Hoover, Executive Director  
SEDL  
211 East Seventh Street  
Austin, TX 78701  
(512) 476-6861 / Fax: (512) 476-2286  
(800) 476-6861  
<http://www.sedl.org/>

## ► Department of Energy (DOE)

### Pantex Plant

Educational outreach programs are designed to promote interest in science, math, and engineering among students attending K-12 educational institutions within the 26-county region in which Pantex is located. The region comprises approximately 79,400 students and 6,000 teachers. Many programs serve at-risk students and students already identified as interested in the sciences. The primary message to students is that science, math, and engineering should be considered as major fields of study in higher education and as career choices. Pantex offers student tours, scholarships, a Science Bowl competition, exhibits, and handouts for students.

Debra Halliday, Educational Outreach Manager  
Pantex Plant External Affairs  
Building 16-12  
PO Box 30020  
Amarillo, TX 79120-0020  
(806) 477-6035 / Fax: (806) 477-5743  
E-mail: dhallida@pantex.com

## ► Department of the Interior (DOI)

### Aransas National Wildlife Refuge

The refuge participates in Project WILD and Aquatic WILD, two interdisciplinary, supplementary environmental and conservation education programs emphasizing wildlife.

Outdoor Recreation Planner  
Aransas NWR  
PO Box 100  
Austwell, TX 77990  
(512) 286-3559 or 286-3533  
Fax: (512) 286-3722

### Arlington Ecological Services Field Office

The Endangered Species Resource Trunk provides Texas students with an awareness of the plight of endangered species in Texas and worldwide, and what is being done to recover their populations. The Fish and Wildlife Conservation Trunk enhances students' understanding of fish and wildlife populations in Texas and conservation efforts.

Robert M. Short, Field Supervisor  
Arlington Ecological Services Field Office  
711 Stadium Drive, Suite 252  
Arlington, TX 76011  
(817) 885-7830 / Fax: (817) 885-7835

### Attwater Prairie Chicken National Wildlife Refuge

In the Teacher's Natural Resource Seminar, Texas teachers are introduced to basic ecosystem concepts and other environmental ideas with hands-on activities to enhance their knowledge of environmental subjects.

Terry A. Rossignol, Refuge Operations Specialist  
Attwater Prairie Chicken NWR  
PO Box 519  
Eagle Lake, TX 77434  
(409) 234-3021 / Fax: (409) 234-3278

### Balcones Canyonlands National Wildlife Refuge

Staff provide onsite talks and presentations to local school children at the request of their schools. The refuge also coordinates all aspects of the Junior Duck Stamp Contest in the state of Texas. This involves instructing teachers and children on how to depict waterfowl in a natural setting, visiting schools to make them aware of the educational benefits of participating in the contest, judging the contest, generating publicity, and providing other information as needed.

Deborah Holle, Refuge Manager  
Balcones Canyonlands NWR  
10711 Burnet Road, Suite 201  
Austin, TX 78758  
(512) 339-9432 / Fax: (512) 339-9453

### Big Thicket National Preserve

The preserve offers interdisciplinary, curriculum-based environmental education programs for all age groups. Accredited teacher workshops are offered.

Other programs include the following:

- **Big Thicket Field Trips** are curriculum-based, interdisciplinary programs for early and upper elementary students. The programs meet Texas State Essential Elements requirements and are based on Big Thicket regional resource management research

and critical issues. Activities are age appropriate and use interactive methods to develop an understanding and commitment to environmental preservation.

- **Big Thicket—A Biological Crossroads** is a secondary curriculum guide that synthesizes environmental studies into a whole to promote appreciation of the Big Thicket. Facts are presented in an unbiased fashion to give students the opportunity to make educated decisions regarding their environment.
- **Environmental Education Skills** is for professional development of front-line people who deal with school and youth groups, develop and present education programs and materials, and serve as liaisons with local teachers and education professionals.
- **Project Wild—Big Thicket** is a supplementary, interdisciplinary environment and conservation education program for educators.

Leslie E. DuBey, Resource Education Specialist  
Big Thicket National Preserve  
3785 Milam  
Beaumont, TX 77701  
(409) 839-2689 / Fax: (409) 838-2599  
E-mail: Leslie\_Dubey@NPS.gov

### Bureau of Land Management State Office

This office provides information about educational programs, materials, and local land-management issues.

Dave Mensing, Education Coordinator  
Bureau of Land Management  
PO Box 27115  
Santa Fe, NM 87502-0115  
(505) 438-7418 / Fax: (505) 438-7426

### Career Oriented Science and Mathematics Integrated Course (COSMIC)

This three-week summer program is designed to encourage girls to explore future careers in the fields of science and math. Participants meet women professionals in various fields.

Gail B. Rainey, Physical Oceanographer  
1201 Elmwood Park Boulevard  
New Orleans, LA 70123  
(504) 736-2792 / Fax: (504) 736-2610

### Guadalupe Mountains National Park

In a field trip, students are introduced to the park's various life zones and learn about the area's prehistoric and historic occupants.

Richard McCamant, Chief Interpretation and Visitor Services  
Guadalupe Mountains National Park  
HC 60, Box 400  
Salt Flat, TX 79847  
(915) 828-3251 / Fax: (915) 828-3269

### Matagorda Island Environmental Education and Research Program

This program consists of prepared courses on all phases of the ecology, geology, and cultural history of the island. Research is offered on selected topics including ecology, endangered species, and wildlife management.

Wayne H. McAlister, Environmental Education Specialist  
Matagorda Island NWR  
PO Box 100  
Austwell, TX 77901  
(512) 286-3559 / Fax: (512) 286-3722

### Minerals Management Service (MMS) Regional Office

The MMS Regional Office provides a range of educational services. Teacher inservice programs and classroom visitations may include supplemental materials. Availability may be limited, but arrangements may be made for duplication of some materials at minimal cost.

Gulf of Mexico Outer Continental Shelf Region  
Minerals Management Service  
Office of Public Affairs  
1201 Elmwood Park Boulevard, MS 5000  
New Orleans, LA 70123-2394  
(504) 736-2595 / Fax: (504) 736-2459  
(800) 200-GULF

### Padre Island National Seashore

Environmental programs, guided nature walks, and in-school presentations are offered. Programs include the following:

- **Ecosystem of Padre Island** allows students to explore the beach, grasslands, and mud flats on the island. Through a series of data collection activities, students begin to understand the island's complex ecosystem.
- **A Grain of Salt** lets students use scientific data gathering techniques to deduce that the natural elements in our environment have a direct relation to the survival of many island plants and animals.
- **It's for the Birds** uses a series of activities to help students understand how birds adapt to the habitat found on the island.
- **Plants, Who Needs 'Em** provides a series of on-site activities to help students explore the role plants play on the island and their inter-relationship to the animals.

- **The Traveling Trunk** contains teacher-directed activities covering the historic aspects of European discovery of the area and scientific information and activities on island habitats.
- **What's Awash in the Gulf** uses activities to help students learn about marine debris and other pollution that enters the Gulf of Mexico and eventually ends up on beaches.

Kristey Bosworth, Education Specialist  
Padre Island National Seashore  
9405 South Padre Island Drive  
Corpus Christi, TX 78418  
(512) 949-8068 / Fax: (512) 949-9951

### Project WILD

Project WILD offers teacher training and educational materials. Teacher guides, free to teachers who attend the training session, contain more than 80 supplementary, interdisciplinary activities for grades K-12.

Kathryn Hampton, Project WILD  
Coordinator  
Texas Parks and Wildlife Department  
4200 Smith School Road  
Austin, TX 78744  
(512) 328-6035 / Fax: (512) 328-5632

### Santa Ana National Wildlife Reserve

The refuge provides teacher packets with lesson plans targeted for grades K-6, interpretive presentations, environmental education programs, and a visitor center that offers interpretive exhibits and displays. Interpretive tram tours are offered to school groups, free of charge. The environmental education tour discusses the flora and fauna and ecology of the area; students are encouraged to think of ways to preserve, protect, and expand habitat areas in the lower Rio Grande Valley.

Carol Levine, Outdoor Recreation Planner  
Santa Ana NWR  
Route 2, Box 202-A  
Alamo, TX 78516  
(956) 787-3079 / Fax: (956) 787-8338

### ► Department of Labor (DOL)

#### Job Training Partnership Act (JTPA) Liaison

The JTPA Liaison can provide information about the Job Training Partnership Act state and local programs for economically disadvantaged adults and youth.

Alan Miller, Director  
Work Force Development Division  
Texas Department of Commerce  
101 East 15th Street  
Austin, TX 78778  
(512) 463-2654 / Fax: (512) 463-2799

### ► Department of Transportation (DOT)

#### Federal Aviation Administration (FAA) Aviation Education

The FAA Aviation Education Representative coordinates aviation education services, including materials and programs for the FAA in the states assigned to the region.

Programs include the following:

- **The Aviation Career Education (ACE) Academy** is a one-week summer aviation education program for high school students sponsored by the FAA along with a host educational institution. The program provides students with diverse experiences in aviation career exploration. The focus is on aviation career clusters identified by the FAA, with an emphasis on opportunities for women and minorities. A goal is to have one program in each state and U.S. territory. The FAA will conduct regional leadership workshops and provide funds based on the availability of resources.
- **Aviation Education Workshops for Teachers** provide teachers with information on FAA aviation programs and materials and prepare them to teach aviation in the classroom. Annual workshops are conducted at colleges and universities across the nation. The FAA provides information, materials, and speakers for the program.
- **National Congress on Aviation and Space Education** is sponsored annually by the FAA in partnership with the National Aeronautics and Space Administration and the Civil Air Patrol. The meeting includes teacher workshops and crosstalk sessions to exchange ideas on promoting aerospace education.

Debra Myers, ASW-18B  
FAA Southwest Region  
2601 Meecham Boulevard  
Fort Worth, TX 76137-4298  
(817) 222-5833 / Fax: (817) 222-5948

#### FAA Aviation Education Resource Centers

Located at colleges, museums, and state aviation authority offices, these centers function as information distribution centers for FAA education materials and resources. The centers

maintain and provide quantities of printed materials, videotapes, and computer educational software. Center personnel can also provide general information, conduct workshops, and make aviation-related presentations.

Isaac Nettey, Director  
Aviation Education Resource Center  
Texas Southern University  
Airway Science Program  
3100 Cleburne Avenue  
Houston, TX 77004  
(713) 639-1847

Olin Lancaster, Director  
Aviation Education Resource Center  
Frontiers of Flight Museum  
Love Field Terminal, BL-38  
Dallas, TX 75235  
(214) 350-3600

Bruce Hoover  
Aviation Education Resource Center  
Palo Alto College  
Aviation Department  
1400 West Villarette  
San Antonio, TX 78224  
(512) 921-5162

Campus Librarian  
Aviation Education Resource Center  
Texas State Technical College  
Aerospace Technologies  
3801 Campus Drive  
Waco, TX 78708  
(817) 799-3611

Jim Milson, Chairman  
Aviation Education Resource Center  
University of Texas at El Paso  
Education Building, Room 403  
El Paso, TX 79968-0574  
(915) 747-5426

### ► Environmental Protection Agency (EPA)

#### EPA Regional Office

This office takes part in a variety of environmental education programs for both teachers and students. Programs range from teacher workshops and student contests to in-school presentations. Information on environmental issues is also available through the Public Information Center located at the office.

Ed Curran, Environmental Education  
Coordinator  
Environmental Protection Agency  
1445 Ross Avenue (6XA)  
Dallas, TX 75202  
(214) 655-2204 / Fax: (214) 655-2118



### **The President's Environmental Youth Awards (PEYA) Program**

Young people in all 50 states and the U.S. territories are invited to participate in PEYA, a nationwide program designed to encourage individuals, school classes, schools, summer camps, public interest groups, and youth organizations to promote environmental awareness and community involvement. The two components of the program are the regional certificate program and the national awards competition. Regional certificates, signed by the President of the United States, are awarded to each participant by the 10 EPA regional offices. One outstanding project from each of the regions is selected for national recognition. Interested individuals or groups may obtain application materials and contest rules by contacting the EPA regional office that serves their state. PEYA has been an ongoing program since it was created by the White House Office of Education and the EPA in 1971.

Pat Baker  
EPA Region 6  
1445 Ross Avenue (6XA)  
Dallas, TX 75202-2733  
(214) 665-7185 / Fax: (214) 655-2118

### **► National Aeronautics and Space Administration (NASA)**

#### **NASA Educator Resource Center**

The center has NASA-related educational materials in various formats, including laserdiscs, CD-ROMs, videotapes, slides, audiotapes, publications, and teacher guides. Educators may preview or copy NASA materials upon request.

Space Center Houston  
Educator Resource Center for  
NASA Johnson Space Center  
1601 NASA Road One  
Houston, TX 77058  
(281) 244-2129

#### **NASA Field Centers**

Each field center has an educational programs officer who is responsible for precollege education programs. In addition to administering national programs, the center offers programs and services to meet regional and local needs.

Billie A. Deason, Education Team Leader  
Education and Information  
Services Branch AP-2  
NASA Johnson Space Center  
2101 NASA Road One  
Houston, TX 77058-3696  
(281) 483-1257

#### **Space Grant Consortium**

The Space Grant Consortium in each state consists of colleges, universities, industry, and other organizations that have an interest in aeronautics and space education. Each consortium receives NASA funds for use in implementing a balanced program of research, education, and public service.

Texas Space Grant Consortium  
2901 North IH 35, Suite 200  
Austin, TX 78722-2348  
(512) 471-3583  
(800) 248-8742

### **► National Science Foundation (NSF)**

#### **Rural Systemic Initiatives (RSI) Program**

This program implements systemic reform strategies for the improvement of science and mathematics education in rural, impoverished regions in the nation. It also encourages development of community infrastructure to sustain those improvements. RSI activities are designed to prepare a technologically competent workforce that will enhance economic development. The program emphasizes use of advanced technology to unite institutions, teachers, students, and other key players across rural distances.

Judy Kelley  
West Texas A&M University  
WT Box 60217  
Canyon, TX 79016  
(806) 656-2271 / Fax: (806) 651-2601  
E-mail: Jkelley@faculty.wtamu.edu

#### **Texas Statewide Systemic Initiatives (SSI) Program**

The Texas SSI program will focus on changes in teacher development. Strategies include Renaissance Centers to house teams of master teachers, scientists, mathematicians, and higher education faculty to reform preservice and inservice programs; the involvement of business, industry, and universities to work with educational service centers and school districts; and the establishment of an infrastructure for distance learning.

David Hill  
Texas SSI  
2613 Speedway  
Austin, TX 78712  
(512) 475-8152 / Fax: (512) 471-6193

### **Urban Systemic Initiatives (USI) Program**

USI serves as the locus of a national effort to substantially improve the performance of urban students by promoting fundamental change in science, mathematics, and technology education. USI complements local authority for education by stimulating partnerships among school districts, colleges and universities, teachers, businesses, community groups, and other key players for the development of a comprehensive, systemic approach to education excellence.

Sally Dudley  
Dallas Independent School District  
3700 Ross Avenue, Box 50  
Dallas, TX 75204  
(214) 302-2449 / Fax: (214) 302-2440  
E-mail: sdudley@tenet.edu

M. Susanna Navarro  
El Paso Cooperative for Academic Excellence  
Education Building, Room 413  
El Paso, TX 79968  
(915) 747-5778 / Fax: (915) 747-5144  
E-mail: navarro@utep.edu

Joseph Lazor  
San Antonio Independent School District  
141 Lavaca Street  
San Antonio, TX 78210  
(210) 734-0016 / Fax: (210) 734-7890  
E-mail: lazorjoe@tenet.edu



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# Directory of Eisenhower Mathematics and Science Regional Consortia

## Appalachia Region

Eisenhower Regional Math/Science Consortium at AEL  
1700 North Moore Street, Suite 1275  
Arlington, VA 22209  
Phone: (800) 624-9120  
<http://www.ael.org/eisen/>  
States Served: Kentucky, Tennessee, Virginia, West Virginia

## Far West Region

WestEd Eisenhower Regional Consortium for Science and Mathematics Education  
730 Harrison Street  
San Francisco, CA 94107-1242  
Phone: (415) 241-2730 / Fax: (415) 241-2746  
<http://www.wested.org/werc/>  
States Served: Arizona, California, Nevada, Utah

## Mid-Atlantic Region

Mid-Atlantic Eisenhower Consortium for Mathematics and Science Education  
Research for Better Schools  
444 North Third Street  
Philadelphia, PA 19123  
Phone: (215) 574-9300 / Fax: (215) 574-0133  
<http://www.rbs.org/eisenhower/>  
States Served: Delaware, Washington DC, Maryland, New Jersey, Pennsylvania

## Mid-continent Region

Eisenhower High Plains Consortium for Mathematics and Science  
2550 South Parker Road, Suite 500  
Aurora, CO 80014  
Phone: (303) 337-0990 / Fax: (303) 337-3005  
Toll-free: (800) 949-6387  
<http://www.mcrel.org/hpc/>  
States Served: Colorado, Kansas, Missouri, Nebraska, North Dakota, South Dakota, Wyoming

## North Central Region

Midwest Consortium for Mathematics and Science Education  
1900 Spring Road, Suite 300  
Oak Brook, IL 60521-1480  
Phone: (630) 571-4700 / Fax: (630) 571-4716  
<http://www.ncrel.org/msc/msc.htm>  
States Served: Illinois, Indiana, Iowa, Michigan, Minnesota, Ohio, Wisconsin

## Northeast and Islands Region

Eisenhower Regional Alliance for Mathematics and Science Education Reform  
TERC  
2067 Massachusetts Avenue  
Cambridge, MA 02140  
Phone: (617) 547-0430 / Fax: (617) 349-3535  
<http://www.ra.terc.edu/>  
States / Areas Served: Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont, Puerto Rico, Virgin Islands

## Northwest Region

Science and Mathematics Consortium for Northwest Schools  
Columbia Education Center  
171 NE 102nd Avenue  
Portland, OR 97220-4169  
Phone: (503) 252-4999 / Fax: (503) 252-4866  
<http://www.col-ed.org/smcnws/>  
States Served: Alaska, Idaho, Montana, Oregon, Washington

## Pacific Region

Pacific Mathematics and Science Regional Consortium  
Pacific Resources for Education and Learning  
1099 Alakea Street, Suite 2500  
Honolulu, HI 96813-4321  
Phone: (808) 533-6000 / Fax: (808) 533-7599  
<http://w3.prel.hawaii.edu/programs/math-science.html>  
States / Areas Served: American Samoa, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia (Chuuk, Kosrae, Pohnpei, Yap), Guam, Hawaii, Republic of the Marshall Islands, Republic of Palau

## Southeast Region

Eisenhower Consortium for Mathematics and Science Education at SERVE  
1203 Governor's Square Boulevard, Suite 400  
Tallahassee, FL 32301  
Phone: (850) 671-6033 / Fax: (850) 671-6010  
<http://www.serve.org/Eisenhower/>  
States Served: Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina

## Southwest Region

Southwest Consortium for the Improvement of Mathematics and Science Teaching  
211 East Seventh Street  
Austin, TX 78701-3281  
Phone: (512) 476-6861 / Fax: (512) 476-2286  
<http://www.sedl.org/pitl/scimast.html>  
States Served: Arkansas, Louisiana, New Mexico, Oklahoma, Texas

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Eisenhower National Clearinghouse  
The Ohio State University  
1929 Kenny Road  
Columbus, OH 43210-1079  
(614) 292-7784 / Fax: (614) 292-2066  
E-mail: [guidebk@enc.org](mailto:guidebk@enc.org)



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